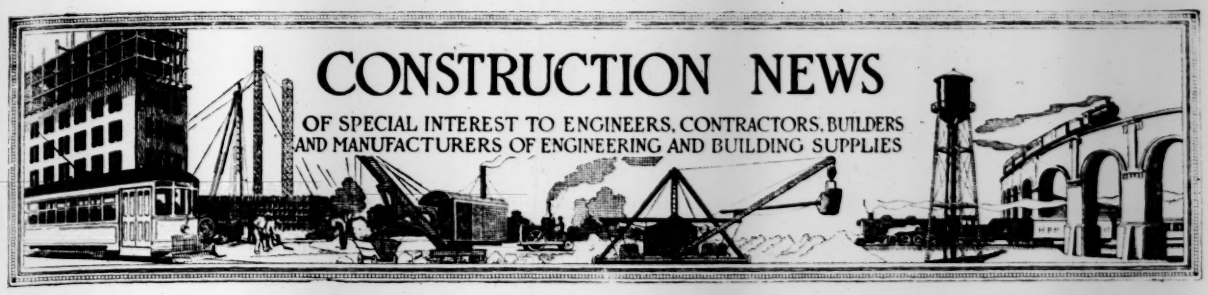

# CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

# PROPOSALS

**"For Proposals Advertised see the pages immediately following the Construction News Section."**

## WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 1 | Elmhurst, Ill. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 2 | Altus, Okla. ..... | Aug. 28 |
| Sept. 3 | Cowley, Wyo. ..... | Aug. 28 |
| Sept. 4 | Wingdale, N. Y. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Central Islip, N. Y. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Rock River, Wyo. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 11 | Wendell, N. C. ..... | Aug. 28 |
| Sept. 16 | Statesville, N. C ..... | Aug. 28 |
| Sept. 17 | Kansas City, Mo. ..... | Aug. 21 |

## SEWERS

| | | |
|---|---|---|
| Sept. 1 | Walnut Grove, Minn. ..... | Aug. 21 |
| Sept. 1 | Inwood, Ia. ..... | Aug. 21 |
| Sept. 3 | Pocahontas, Ia. ..... | Aug. 21 |
| Sept. 3 | Pittsburgh, Pa. ..... | Aug. 28 |
| Sept. 3 | Leesburg, Fla. ..... | Aug. 28 |
| Sept. 4 | Richmond, Ky. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 5 | Bexley (Columbus P. O.), O. ..... | Aug. 28 |
| Sept. 9 | Kendall, Ind. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Rock River, Wyo. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Binghamton, N. Y. ..... | Aug. 28 |

## BRIDGES

| | | |
|---|---|---|
| Sept. 1 | Duluth, Minn. ..... | Aug. 14 |
| Sept. 2 | Chester, S. C. ..... | Aug. 21 |
| Sept. 2 | Minneapolis, Minn. ..... | Aug. 14 |
| Sept. 2 | Blue Earth, Minn. ..... | Aug. 21 |
| Sept. 3 | Visalia, Cal. ..... | Aug. 28 |
| Sept. 3 | Dubois, Pa. ..... | Aug. 21 |
| Sept. 3 | Three Rivers, Cal. ..... | Aug. 21 |
| Sept. 3 | Long Island City, N. Y. ... | Aug. 28 |
| Sept. 3 | Toledo, O. ..... | Aug. 14 |
| Sept. 9 | Duluth, Minn. ..... | Aug. 14 |
| Sept. 9 | Columbus, O. ..... | Aug. 28 |
| Sept. 9 | Danville, Ill. ..... Adv. Aug. 28 | Aug. 28 |
| Sept. 9 | Lake Geneva, Wis. ..... | Aug. 28 |
| Sept. 10 | Columbus, O. ..... | Aug. 28 |
| Sept. 12 | Schenectady, N. Y. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 15 | Portsmouth, Va. ..... | Aug. 28 |
| Sept. 16 | Wayne, W. Va. ..... | Aug. 21 |
| Sept. 17 | Pasco, Wash. ..... | Aug. 28 |
| Sept. 22 | Norristown, Pa. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 22 | Duluth, Minn. ..... | Aug. 28 |
| Sept. 23 | Harrisburg, Pa. ..... Adv. Aug. 14. | Aug. 14 |

## STREETS AND ROADS

| | | |
|---|---|---|
| Sept. 1 | Arcadia, Fla. ..... | Aug. 7 |
| Sept. 1 | Salt Lake City, Utah ..... | July 24 |
| Sept. 1 | Alexandria, La. ..... | Aug. 21 |
| Sept. 1 | Tunica, Miss. ..... | Aug 28 |
| Sept. 2 | Waterville, Wash. ..... | Aug. 21 |
| Sept. 2 | Pascagoula, Miss. ..... Adv. Aug. 21 | Aug. 21 |
| Sept. 2 | North Carolina ..... | Aug 21 |
| Sept. 2 | Louisiana ..... | Aug. 21 |
| Sept. 2 | Independence, Mo. ..... | Aug. 7 |
| Sept. 2 | Minneapolis, Minn. ..... | Aug. 14 |
| Sept. 2 | Washington, Ga. ..... | Aug. 14 |
| Sept. 2 | Sylacauga, Ala. ..... | Aug. 14 |
| Sept. 2 | Maryland ..... Adv. Aug. 21. | Aug 21 |
| Sept. 2 | Bellevue, Pa. ..... | Aug. 28 |
| Sept. 2 | Newton, N. J. ..... | Aug. 28 |
| Sept. 2 | California ..... | Aug. 28 |
| Sept. 2 | Dyersburg, Tenn. ..... | Aug 28 |
| Sept. 2 | Bemidji, Minn. ..... | Aug. 28 |
| Sept. 2 | Connecticut ..... | Aug. 28 |
| Sept. 2 | Little Rock, Ark. ..... | Aug. 28 |
| Sept. 2 | Kansas City, Kan. ..... | Aug. 28 |
| Sept. 3 | Baltimore, Md. ..... | Aug. 28 |
| Sept. 3 | Huntington, W. Va. ..... | Aug. 28 |
| Sept. 3 | Pittsburgh, Pa. ..... | Aug. 28 |
| Sept. 3 | Brooklyn, N. Y. ..... | Aug. 28 |
| Sept. 3 | Maine ..... | Aug. 21 |
| Sept. 3 | Toledo, O. ..... | Aug. 14 |
| Sept. 3 | Moultrie, Ga. ..... | Aug. 14 |
| Sept. 4 | Fulton, Mo. ..... | Aug. 21 |
| Sept. 4 | Rochester, N. Y. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 4 | Coldwater, O. ..... | Aug. 28 |
| Sept. 4 | Charlotte, N. C. ..... | Aug. 28 |
| Sept. 5 | Thief River Falls, Wis. ... | Aug. 28 |
| Sept. 5 | Little Rock, Ark. ..... | Aug. 21 |
| Sept. 8 | Seattle, Wash. ..... | Aug. 21 |
| Sept. 8 | Indiana ..... | Aug. 14 |
| Sept. 8 | Monroe, Ga. ..... | Aug. 21 |
| Sept. 8 | Vercheres, Que. ..... | Aug. 28 |
| Sept. 8 | Como East, Que. ..... | Aug. 28 |
| Sept. 8 | Bakersfield, Cal. ..... | Aug. 28 |
| Sept. 9 | New York, N. Y. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 9 | Keyser, W. Va. ..... Adv. Aug. 21 | Aug. 21 |
| Sept. 9 | Jersey City, N. J. ..... | Aug. 21 |
| Sept. 9 | Indiana ..... | Aug 28 |
| Sept. 9 | Whiteville, N. C. ..... | Aug. 28 |
| Sept. 9 | Trenton, N. J. ..... | Aug. 28 |
| Sept. 10 | Centerville, Tenn. ..... | Aug. 28 |
| Sept. 10 | Bentonville, Ark. ..... | Aug. 21 |
| Sept. 10 | Delaware ..... Adv. Aug. 21 | Aug. 21 |
| Sept. 10 | Waterloo, Ia. ..... | Aug. 21 |
| Sept. 12 | Trenton, N. J. ..... | Aug. 28 |
| Sept. 15 | Clayton, Mo. ..... | Aug. 28 |
| Sept. 15 | Sanford, Fla. ..... | Aug. 28 |
| Sept. 15 | New Mexico ..... | Aug. 28 |
| Sept. 16 | Lewisburg, W. Va. ..... Ad.. Aug. 28 | Aug. 28 |
| Sept. 16 | Griffin, Ga ..... | Aug. 28 |
| Sept. 16 | New Mexico ..... | Aug. 28 |
| Sept. 16 | Prosser, Wash. ..... | Aug. 21 |
| Sept. 16 | New Orleans, La. ..... | Aug. 21 |
| Sept. 18 | Marion, Ark. ..... | Aug. 21 |
| Sept. 20 | Madill, Okla. ..... | Aug. 28 |
| Sept. 22 | Lyons, Kan. ..... | Aug. 28 |
| Oct. 10 | Tacoma, Wash. ..... Adv. Aug. 14. | Aug. 14 |

## EXCAVATION AND DREDGING

| | | |
|---|---|---|
| Sept. 2 | Sanford, Ala. ..... | Aug. 14 |
| Sept. 5 | Fort Dodge, Ia. ..... | Aug. 21 |
| Sept. 10 | Toms River, N. J. ..... | Aug. 21 |
| Sept. 22 | Tower, Minn. ..... | Aug. 21 |

## INDUSTRIAL WORKS

| | | |
|---|---|---|
| Aug. 31 | Long Island City, N. Y. ... | Aug. 28 |
| Sept. 1 | Hastings, Minn. ..... | Aug. 21 |
| Sept. 2 | Kohler, Wis. ..... | Aug. 28 |
| Sept. 5 | Sheboygan, Wis. ..... | Aug. 28 |
| Sept. 3 | Minneapolis, Minn. ..... | Aug. 28 |
| Sept. 10 | Two Rivers, Wis. ..... | Aug. 28 |
| Sept. 15 | New York, N. Y. ..... | Aug. 28 |

## BUILDINGS

| | | |
|---|---|---|
| Sept. 1 | St. Louis, Mo. ..... | Aug. 21 |
| Sept. 1 | Omaha, Neb. ..... | July 17 |
| Sept. 1 | Ft. Worth, Tex. ..... | Aug. 14 |
| Sept. 1 | Cameron, Tex. ..... | Aug. 14 |
| Sept. 1 | Miamisburg, O. ..... | Aug. 14 |
| Sept. 1 | Outremont, Que. ..... | Aug. 14 |
| Sept. 1 | Willmar, Minn. ..... | Aug. 21 |
| Sept. 1 | Montreal, Que. ..... | Aug. 28 |
| Sept. 2 | Twin Falls, Idaho ..... | Aug. 21 |
| Sept. 2 | Merced, Cal. ..... | Aug. 21 |
| Sept. 2 | Okmulgee, Okla. ..... | Aug. 21 |
| Sept. 2 | Berkeley, Cal. ..... | Aug. 28 |
| Sept. 2 | Wichita, Kan. ..... | Aug. 28 |
| Sept. 2 | Philadelphia, Pa. ..... | Aug. 28 |
| Sept. 2 | Crookston, Minn. ..... | Aug. 28 |
| Sept. 3 | Trenton, N. J. ..... | Aug. 14 |
| Sept. 3 | Atlantic City, N. J. ..... | Aug. 28 |
| Sept. 3 | Victoria, Tex. ..... | Aug. 14 |
| Sept. 4 | Hartsdale, N. Y. ..... | Aug. 21 |
| Sept. 4 | Bayonne, N. J. ..... | July 31 |
| Sept. 4 | Peterborough, Ont. ..... | Aug. 14 |
| Sept. 4 | Lyndon, Kan. ..... | Aug. 21 |
| Sept. 4 | Troy, N. Y. ..... | Aug. 21 |
| Sept. 5 | Taycheedah, Wis. ..... | Aug. 28 |
| Sept. 5 | San Francisco, Cal. ..... | Aug. 21 |
| Sept. 6 | Fairview, Pa. ..... | Aug. 14 |
| Sept. 10 | Kings Park, N. Y. ..... | Aug. 28 |
| Sept. 11 | Minneapolis, Minn. ..... | Aug. 21 |
| Sept. 11 | Superior, Wis. ..... | Aug. 21 |
| Sept. 12 | Cloquet, Minn. ..... | Aug. 21 |
| Sept. 12 | Council Bluffs, Ia. ..... | Aug. 28 |
| Sept. 15 | Pleasant Grove, Utah ..... | July 24 |
| Sept. 15 | St. Paul, Minn. ..... | Aug. 14 |
| Oct. 1 | St. Paul, Minn. ..... | Aug. 28 |
| Oct. 1 | Virginia, Minn. ..... | Aug. 28 |

## FEDERAL GOVERNMENT WORK

| | | |
|---|---|---|
| Sept. 2 | Towboat—Memphis, Tenn. | Aug. 7 |
| Sept. 2 | Miscellaneous Equipment—Washington, D. C. ..... Adv. July 10 and 17. | July 10 |
| Sept. 2 | Post Office—Kansas City, Mo. ..... | July 24 |
| Sept. 2 | Dredging—New York, N. Y. .. Adv. Aug. 7. | Aug. 7 |
| Sept. 2 | Finishing Machine Shop and Heat Treatment Building and Half-Yard Runaways—Nicetown, Pa. ..... Adv. Aug. 28. | Aug. 28 |
| Sept. 3 | Equipment—Spec. 3882—New Orleans, La. ..... | Aug. 28 |
| Sept. 3 | Roadwork — Republic, Wash. ..... | Aug. 28 |
| Sept. 4 | Boiler Plant — Stapleton, N. Y. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 4 | Bridge—Arizona ..... | Aug. 21 |
| Sept. 5 | Post Office — Montevideo, Minn. ..... | Aug. 14 |
| Sept. 7 | Alterations to Post Office—Detroit, Mich. ..... Adv. Aug. 21 | Aug. 21 |
| Sept. 8 | Hangar — Spec. 4001 — Lakehurst, N. J. ..... | Aug. 21 |
| Sept. 8 | Post Office—Carroll, Ia. ... | Aug. 14 |
| Sept. 9 | Forge Shop Extension, Shell and Case, Shop Buildings—Philadelphia, Pa. .... Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Post Office—Douglas, Ga. .. | July 31 |
| Sept. 10 | Water and Sewerage Systems and Fuel Oil Reservoir —Spec. 4007, San Diego, Cal. ..... | Aug. 21 |
| Sept. 10 | Torpedo Track, Electric Trolley and Hoist and Gyro —Spec. 4008—Pearl Harbor, Hawaii ..... | Aug. 28 |
| Sept. 11 | Earthwork — Memphis, Tenn. ..... Adv. Aug. 21 | Aug. 21 |
| Sept. 12 | Remodeling Electric Passenger Elevator — Chicago, Ill. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 12 | Pumps — New Haven, Conn. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 15 | Earthwork—St. Louis, Mo. Adv. Aug. 21. | Aug. 21 |
| Sept. 15 | Post Office—Winnemucca, Nev. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 15 | Kitchen and Mess Hall — Stapleton, N. Y. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 17 | Development of Base — Spec. 3762 — Key West, Fla. ..... | Aug. 28 |
| Sept. 18 | Sewerage System—Waters Service Lines and Electric Lighting Plant—Washington, D. C. ..... | Aug. 28 |
| Sept. 18 | Jetty Repair — Wilmington, Del. ..... Adv. Aug. 21. | Aug. 21 |
| Sept. 18 | Post Office—North Topeka, Kan. ..... | Aug. 14 |
| Sept. 22 | Material — Charlestown, W. Va. ..... | Aug. 21 |
| Sept. 22 | Post Office — Charleston, W. Va. ..... | Aug. 21 |
| Sept. 24 | Mechanical Stokers—Spec. 4010—Charleston, S. C. ... | Aug. 28 |
| Sept. 24 | Reciprocating Air Compressor — Spec. 3837 — Puget Sound, Wash. ..... | Aug. 28 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 26 | Post Office and Custom House—Providence, R. I. Adv. Aug. 21. | Aug. 21 |
| Sept. 29 | Dredge, etc.—Wilmington, N. C. Adv. Aug. 28. | Aug. 28 |
| Sept. 30 | Remodeling Hospital—Boston, Mass. | Aug. 28 |
| Oct. 1 | Valves, Gates, etc.—Denver, Colo. Adv. Aug. 21. | Aug. 21 |
| Oct. 1 | Electric Lighting and Power Systems—Spec. 3982—Mare Island, Cal. | Aug. 28 |
| Oct. 6 | Post Office—St. Johnsburg, Vt. | Aug. 28 |
| Oct. 10 | Dredge—New York, N. Y. Adv. Aug. 28. | Aug. 28 |
| Nov. 3 | Post Office and Court House—Honolulu, H. T. | Aug. 21 |

## MISCELLANEOUS

| | | |
|---|---|---|
| Sept. 2 | Sewage Pumping Machinery—Los Angeles, Cal. | Aug. 21 |
| Sept. 2 | Pier Shed—Seattle, Wash. | Aug. 21 |
| Sept. 2 | Bulkhead, Wharf and Shelter Sheds—Wilmington, Del. Adv. Aug. 21. | Aug. 21 |
| Sept. 2 | Paving Materials — Portland, Ore. | Aug. 28 |
| Sept. 3 | Wharf — St. Jean Orleans, Que. | Aug. 28 |
| Sept. 3 | Harbor Improvements — Newport Beach, Cal. | Aug. 28 |
| Sept. 5 | Pump—Bruce, S. D. | Aug. 21 |
| Sept. 9 | Street Lighting System — Dell Rapids, S. D. | Aug. 28 |
| Sept. 12 | Dam—Decatur, Ill. | Aug. 14 |
| Sept. 15 | Levee—Alexandria, La. | Aug. 14 |
| Sept. 16 | Breakwater—Petit Rocher, N. B. | Aug. 28 |
| Sept. 17 | Wharf—Meteghan, N. S. | Aug. 28 |
| Sept. 17 | Breakwater—Quaco, N. B. | Aug. 28 |
| Sept. 22 | Wharf—Naramata, B. C. | Aug. 28 |
| Sept. 23 | Turbines, etc.—Saskatoon, Sask. Adv. July 24. | July 24 |

**Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

### PROPOSED WORK

**Ga., Columbus**—City plans to expend $15,000 to improve waterworks system, including new filtration plant, pumps, etc. W. D. Fraser, city engr.

**La., Lafayette**—See "Streets and Roads."

**Wis., Markesan**—City having plans prepared by W. G. Kirchoffer, engr., 31 Vroman Blk., Madison, for water supply system. Cost between $20,000 and $30,000.

**Minn., Buffalo**—City plans to build water mains in various streets. About $25,000.

**Minn., Great Falls**—City plans election to vote on $225,000 bonds to build 100,000 gal. storage reservoir and 24-in. supply main for Boston Heights Addition. L. B. Evenson, 716 4th Ave. N, engr.

**Neb., Ord**—City plans to improve waterworks system and install sewers in various streets. About $75,000. Rohrbaugh Eng. Co., 929 City Natl. Bank Bldg., Omaha, engrs.

**N. D., Fairmont**—City having plans prepared by W. C. Buck, engr., 1245 West Minnehaha Parkway, for installing new waterworks well system. About $5000.

**Wyo., Greybull** — Town soon lets contract furnishing materials and labor for extensions to waterworks system, involving 2300 ft. 2 in., 6040 ft. 4 in. and 1500 ft. 6 in. galvanized ironpipe. G. W. Zoin, town engr.

**Tex., Vernon**—City plans to extend water mains and sewers. About $20,000. A. J. Robinson, city engr.

**Okla., Collinsville**—City retained Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., to prepare plans for water purification plant, filters, settling basins, etc. Election Sept. 3, to vote on $40,000 bonds for project.

**Okla., Lindsey**—City voted $25,000 bonds to build water supply system. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

**Okla., Madill**—City retained Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., to investigate source of water supply. Probably solution will be impounding reservoirs. About $150,000.

**Okla., Perry**—City voted $166,000 bonds to install new waterworks system.

**Okla., Tonkawa**—City having plans prepared by Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., for complete waterworks system. Bonds for $100,000 sold for project.

**Utah, Spanish Fork**—City voted $15,000 bonds to enlarge and extend waterworks system.

**Ore., Portland**—Villa Ave.-Base Line Mutual Water Co. recently incorporated with $14,000 plans to build private mains in city for private use. About $10,000.

**Ont., York**—F. Barber, engr., 40 Jarvis St., Toronto, rejected bids laying 6 in. c.i. watermains in various streets. Noted July 31.

### BIDS DESIRED

**N. Y., Central Islip**—Until Sept. 10, by State Hospital Comn., Capitol, Albany, for artesian well for additional water supply at North Colony Power Plant, Central Islip State Hospital, here. L. F. Pilcher, state archt.; advertised in this issue.

**N. Y., Wingdale**—Until Sept. 4, by C. F. Rattigan, supt. prisons, Capitol, Albany, for concrete dam, c.i. pipe line, mechanical gravity filter plant, at Wingdale Prison, here; advertised in this issue.

**N. C., Statesville**—Until Sept. 16, by city, building 1 clear water basin lined with concrete, 1,000,000 gal. capacity. Former bids rejected. R. L. Greenlee, Statesville, engr. Noted July 24.

**N. C., Wendell**—Until Sept. 11, by Mayor, building 3 mi. water pipe lines, deep well, pump, tower and tank; also 5 mi. sewers and sewage disposal plant. About $30,000. G. White, Durham, engr.

**Mich., Highland Park** (Detroit P. O.)—Until Sept. 8, by City Council, 20 Gerald Ave., furnishing 4 motor-driven centrifugal pumping units and 1 motor-driven vacuum pumping unit. D. C. Gowing, clk.; advertised in this issue.

**Ill., Elmhurst**—Until Sept. 1, by city, building 96,797 lin.ft. 4-12 in. c.i. water mains, 217 hydrants, 1500 lead pipe house connections, one hundred forty-two 4-12 in. gate valves. E. Hancock, 2047 Ogden Ave., Chicago, engr.; advertised in this issue.

**Wyo., Cowley**—Until Sept. 3, by City Council for labor and material building and laying 2800 ft. 8 in., 3366 ft. 6 in. and 2244 ft. 4 in. c. i. pipe, valves and fire hydrants. Cotner & Cotner, Lovell, engrs.

**Wyo., Rock River**—Until Sept. 10, at office of Secretary Town Council, building 9540 ft. 6 in. c.i. pipe and installing 15 Ludlow fire hydrants. About $19,000. E. K. Nelson, engr. in charge.; advertised in this issue.

**Okla., Altus**—Until Sept. 2, by City Clerk, extending and improving waterworks system. About $100,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**★N. C., Warsaw**—City let contract building waterworks system, as follows: pipe laying, to W. Z. Williams & Co., Georgia Gas Co. Bldg., Macon, Ga., $8019; pumps, to Sydnor Pumps & Well Co., 302 East Main St., Richmond, Va., $2290; c.i. pipe, to Glamorgan Pipe & Fdry. Co., $13,272; boiler, also tower and tank, to Schofield's Sons Co., Hammond and Boundary Sts., Macon, Ga., $2900 and $7190, respectively; valves and hydrants, to Darling Valve & Mfg. Co., $2224. Noted July 17.

**★Mich., Redford**—B. E. Taylor, 501 Ford Bldg., Detroit, let contract laying 35,000 ft. 8 in. c.i. water pipe in subdivisions in vicinity of Grand River Ave., here, to W. C. Hoy, Redford. About $35,000.

**★Mich., River Rouge**—Village let contract furnishing labor and materials laying 4330 ft. 6 in. and 580 ft. 8 in. c.i. water pipe with specials and hydrants, to J. A. McDace, Fairview Ave., Detroit. About $6500. Noted Aug. 21.

**★Minn., Hinckley**—City let contract building distribution system, hydrants, steel tower, tank, iron pipe, etc., to Minneapolis Steel and Machy. Co., 29th St. and Minnehaha Ave., Minneapolis, $27,508. Noted July 10.

**★Mont., Denton**—City let contract building 200,000 gal. reservoir, supply mains, fire hydrants, etc., to Two Miracle Co., 437 Ford Bldg., Great Falls, $64,878. Noted June 19.

**★Mont., Scobey** — City let contract completing waterworks system, including 100,000 gal. steel tank, etc., to G. W. Kemper, Minot, N. D., $96,269. Noted July 31.

**★Ariz., Jerome**—City trustees let contract laying pipe for fire line system, to J. D. Newcomb. About $13,600. (City to furnish pipe.)

**★Cal., Santa Barbara**—City let contract furnishing 8700 lin.ft. 24 in. continuous stave redwood pipe for line from Rattlesnake Creek power house to Sheffield Reservoir, to Redwood Manufactures Co., Pittsburgh, $27,199.

**★Ont., York**—York Co. let contracts to Murphy Constr. Co., Toronto, for laying water mains in Bernice St., $3831, Florence St., $2302, Thornhill St., $3882; to MacNamara Bros. & Co., Saulte Ste Marie, Hanson St., $2220, Atlas St., N., $959, Robina St., $3714, Fay St., $2665; to A. Cavoti, Toronto, Miller St., $1587. Work involves about 8000 ft. 6 in. c.i. water pipe. Noted July 31.

# Sewers

### PROPOSED WORK

**Mass., Chicopee**—City appropriated $15,000 to build 24 in. vitr. sewer pipe in Roosevelt Ave.

**N. J., Jersey City**—City plans to lay sewers in Summit Ave. between Cranford St. and Fairmont Ave. About $12,000. C. Van Keuren, city engr.

**N. J., Trenton**—City Comn. soon receives bids building ¾ mi. of sewers in Olden, Spruce, New York and Mulberry Sts. About $20,000. I. R. Fell, city engr.

**Pa., Ellwood City**—Boro. rejected bids building various sections of sewers in 4th ward. About $42,000. Noted July 24.

**Pa., Morrisville**—City plans to build 17 mi. pipe sewers and sewage disposal plant through entire city. About $265,000. T. F. Bowe, East Rutherford, N. J., engr.

**Mich., Detroit**—Dept. Pub. Wks. soon lets contract furnishing labor and material except manhole rings and covers for finishing complete egg shaped sewer, involving 5372 ft. 2 ft. 9 in. x 4 ft. 3 in., brick vitr segmental block, rein.-con. or plain concrete pipe. C. W. Hubbell, city engr.

**Mich., Detroit**—Dickinson Real Estate Exchange, 205 Old Whitney Bldg., soon lets contract furnishing labor and material building complete sewerage system in Avon Park subdivision, involving 12,226 ft. 8-20 in. vitr. crock sewer, 29 brick manholes. About $20,000.

**Wis., Manitowoc**—City having plans prepared by A. H. Zander, engr, City Hall, excavating and laying 2.1 mi. 10 in. vitr or concrete pipe sewer in various districts. About $25,000.

**Wis., Markesan**—City having plans prepared by W. G. Kirchoffer, engr., 31 Vroman Blk., Madison, excavating and laying pipe sewer and installing sewage disposal plant. About $30,000.

**Neb., Ord** — See "Waterworks."

**Mo., St. Louis**—Bd. Pub. Wks. soon receives bids rebuilding 450 ft. Branch St. sewers. C. E. Smith, City Hall, engr.

**Tex., Vernon**—See "Waterworks."

**Okla., Enid**—City plans to build sewerage system and sewage disposal plant. About $175,000. Black & Veatch, Interstate Bldg., Kansas City, Mo., archts.

**Okla., Nowata**—See "Streets and Roads."

**Idaho, Buhl**—City plans to build 68,000 lin.ft. sewer in Dist. No. 3 and 84,322 lin.ft., Dist. No. 4, 6-36 in pipe. About $29,000 and $38,000 respectively.

**Wash., Yakima**—City plans to build complete sewerage system. Bonds for $350,000 voted for project. C. F. Wilson, Yakima, engr.

**Ore., Astoria**—City Council plans to build drainage and sewerage system in Dist. No. 1, 8 in. vitr. or cement pipe. About $51,000. E. G. Gearhart, city aud.

**Ore., Portland**—City Council soon lets contract building sewer in East 24th St. vitr. or cement, (120 days). Cost will exceed $10,000. O. Laurgaard, city engr.

**Ore., Portland**—City Council adopted resolution to build sewers, lampholes, catchbasins, manholes, sewer branch and service pipes, in Johnson St., from 6th to 7th Sts., 6th St. from Johnson to Glisan Sts., East 15th St. from East Alden to East Stark Sts., East 69th St. from Flanders to Davis Sts., East 69th St. from East Flanders to East Glisan Sts. About $11,752. O. Laurgaard, city engr.

### BIDS DESIRED

**N. Y., Binghamton**—Until Sept. 10, by State Hospital Comn., Capitol, Albany, for sanitary work and sewage disposal for power plant, Binghamton State Hospital, E. S. Elwood, secy. state hospital comn. L. F. Pilcher, Capitol, Albany, state archt.

Sewers (Continued)

**Pa., Pittsburgh**—Until Sept. 3, by City Controller, laying 8 to 15 in. sewers in Grandview Ave., Fallowfield, McCandless and Richmond Sts. N. S. Sprague, City Council Bldg., engr.

**N. C., Wendell**—See "Waterworks."

**Fla., Leesburg**—Until Sept. 3, by city building 5.5 mi. 8-10 in. pipe sewers, with necessary appurtenances and sewage disposal tank. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., engrs. Noted July 2.

**O., Bexley** (Columbus P. O.)—Until Sept. 5, by L. S. Higgins, clk., laying 6000 ft. 36-60 in. main sewers with branches running in northerly direction; also laying 3200 ft. 15 in. and 4800 ft. 18 in. sanitary sewers in same trench with main sewers. About $200,000. Jennings, Lawrence Co., 511 Hartman Bldg., Columbus, engrs.

**O., Coldwater**—See "Streets and Roads."

**Ind., Kendallville**—Until Sept. 9, by C. E. Michaelis, city clk., for material and work for constructing following improvements: resolution No. 47, providing for storm water sewer in Sheridan St. alley Railroad, Rush, Summit, Williams, Oak, Mitchell, Harris and Richmond Sts.; resolution No. 48, storm water sewer in Garden, Diamond, Sheridan, Clark, Burnam and East Sts.; advertised in this issue.

**Wis., Taycheedah** — Until Sept. 5, at State Engineer's Office, Capitol, Madison, building 1020 ft. 10 in. sewer, sewage disposal plant, 262 lin.ft. 5 x 6½ ft. tunnel, 3334 sq.ft. sidewalk and 4430 lin.ft. roads and drives.

**Ia., Corning**—Until Sept. 2, by W. C. Chubb, city clk., building sewage disposal plant and improving sewerage system, involving 20,000 ft. 8-12 in. vitr. pipe. Archer & Stevens, 609 New England Bldg., Kansas City, Mo., engrs. About $40,000. Noted July 17.

**Wyo., Rock River**—Until Sept. 10, at office of Secretary Town Council, building 4630 ft. 8 in. and 2470 ft. 6 in. clay sewer. E. K. Nelson, engr. in charge; advertised in this issue.

**Ark., Blytheville** — Until Sept. 4, by Comrs. D. D. No. 17, building 5000 ft. 3 x 4 ft. and 4 x 7½ ft. rein.-con. storm sewers in district. Pride & Fairley, Blytheville, engrs.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., New York**—F. L. Dowling, pres. Manhattan Boro., let contract reconstructing sewers in East 72nd St., to Reilly Contg. Co., 118 East 89th St., $19,304; F St. and in continuation thereof, now known as Prescott Ave. from Dyckman St. to point 750 ft. north to A. Gaspariny, 1964 Honeywell Ave., $15,311. Noted Aug. 21.

★**Pa., Forty Fort** (Kingston P. O.)—Boro let contract building sewerage system, to Banks & Howe, Forty Fort. About $139,000. Noted July 24.

★**N. C., Warsaw**—City let contract for labor for laying 7000 ft. 8 in., 3000 ft. 10 in. and 6000 ft. 12 in. vitr. pipe, to W. Z. Williams & Co., Georgia Gas Bldg., Macon, Ga., $13,184, pipes, to Pomona Terra Cotta Co., Pomona, $4207. Noted July 17.

**O., Cleveland** — City received bids laying 3120 ft. 3-6 ft. 3 in. brick and 660 ft. 12-24 in. vitr. pipe sewers in Kinsman Rd. from East 135th to 140th Sts., from Manson Co., 346 The Arcade, $75,771; Gallagher Burks Co., 1339 Irene Ave., $77,923; River Constr. Co., 12909 Mayfield Rd., $78,269.

★**Ill., Chicago**—Bd. Local Impvts. let contract building Crawford Ave. sewerage system, to Ryan Co., 4500 West Division St., 1 concrete bulkhead, $15,000, 900 ft. 10½ ft. 4R brick sewer, $100 per ft., 1 concrete siphon, $20,000, 2660 ft. 10½ ft. 4R brick sewer, $45 per ft., 5320 ft. 10 ft. 3R brick sewer, $32 per ft., 5320 ft. 9½ ft. 3R brick sewer, $29 per ft., 2660 ft. 9¼ ft. 3R brick sewer, $28 per ft., 5320 ft. 7½ ft. 3R brick sewer, $24 per ft., 1340 ft., 4 ft. 2R brick sewer, $10 per ft., 1340 ft. 3½ ft. 2R brick sewer, $9 per ft., 1000 ft. 3 ft. 2R brick sewer, $8 per ft., 670 ft. 18 in. D.S. sewer, $2.50 per ft., 670 ft. 15 in. D.S. sewer, $2 per ft., 1340 ft. 6 ft. 2R brick sewer, $14 per ft., 1000 ft. 5½ ft. 2R brick sewer, $13 per ft., 1000 ft. 5 ft. 2R brick sewer, $12 per ft., 1340 ft. 4¼ ft. 2R brick sewer, $11 per ft., 670 ft. 3½ ft. 2R brick sewer, $9 per ft., 1340 ft. 3 ft. 2R brick sewer, $8 per ft., 1340 ft. 2 ft. D.S. sewer, $3.50 per ft., 180 ft. 15 in. wing sewers, $4 per ft., 850 ft. 12 in. wing sewers, $3 per ft., 158 brick manholes, $60 each, 347 brick catchbasins, $70 each, 191 brick house drains, $30 each, 800 cu.yd. macadam pavement, $6 per cu.yd., 2500 sq. yd., 2½ in. asphaltic, $.75 per sq.yd., 7000 sq.ft. 5 in. concrete sidewalks, $.20 per sq.ft., 2000 lin.ft. cinder sidewalks, $.40 per lin.ft., 20,000 cu.yd. excav., $1.25 per cu.yd., total cost, $964,440. Noted July 31.

★**Wis., Manitowoc**—City let contract excavating and laying 10 in. vitr. pipe sewer in Main and 10th Sts., to Gray-Robinson Co., North 8th St. About $15,000.

★**Minn., St. Cloud**—A. W. Buckman, city clk., let contract building 5 blocks 36 in. segmental sewers in Dist. No. 7, to J. P. Bejenius, St. Cloud, $14,065. Noted July 31.

★**N. D., Edgeley**—City let contract building extensions to sewerage system, to Fraser & Danforth, 810 Guardian Life Bldg., St. Paul, Minn. About $85,900.

★**Mont., Scobey**—City let contract installing 20,000 lin.ft. 8-18 in. vitr. pipe sewer, to G. W. Kemper, Minot, N. D., $49,485. Noted July 31.

★**Mo., Holden**—City let contract installing sanitary sewerage system and sewage disposal plant, to J. O'Neil, Leavenworth, Kan. About $57,000. Noted June 26.

★**Mo., Kansas City**—Bd. Pub. Wks. let contract building Turkey Creek Sewer, to T. Kelley & Sons, Ltd., 504 Lindsay Bldg., Winnipeg, Can. About $2,453,749. Noted July 3.

★**Ariz., Phoenix**—City let contract building tile drainage system to C. Fisher, 854 North 6th Ave. About $124,711. Noted July 17.

★**Wash., Toppenish**—See "Streets and Roads."

★**Ore., Portland**—City Council let contracts to J. F. Shea, North 2nd St., building sewerage system in East 37th St. and Raymond Ave., $40,655, and in Harold and 55th Aves., $154,755, both 8 in. vitr. pipe. Noted Aug. 21.

**Cal., Los Angeles**—Bd. Pub. Wks. received only bid building rein.-con. sewage pumping pit in Manchester Ave., from J. F. Blee, 500 Stimson Bldg. About $12,000.

**Cal., Oakland**—City Council bids Aug. 14, building storm sewers in Kingsland Ave., involving 541 ft. 18 in. and 411 ft. 21 in. tile pipe, from Hutchinson Co., 444 17th St., $10,198; Bresse Burgund Co., East Oakland, $12,864; J. Heafey, 22 Mesa St., $11,913.

## Bridges

### PROPOSED WORK

**Virginia**—State Highway Comn., Richmond, soon lets contract building 25 ft. rein.-con. bridge and approaches ½ mi. south of Emporia, Greensville Co.; also one 50 ft., rein.-con. bridge and approaches near Clarksville, Mecklenburg Co.

**W. Va., South Charleston**—Comrs. Kanawha Co. and Charleston Interurban Traction Co. plan to build bridge over Kanawha River, at South Charleston, to replace toll bridge now in use and owned by Chesapeake & Ohio R.R. About $300,000.

**Ga., Bainbridge**—Comrs. Decatur Co. plan to build rein.-con. bridge over Flint River. About $225,000. W. G. Harrell, chn. J. A. Mortlan, c/o State Highway Dept., Tallahassee, Fla., engr.

**Minn., Pine City**—A. P. Edin, aud. Pine Co. rejected bids building Bridge No. 3128 between Sects. Nos. 28 and 29; No. 3126, 30 ft. rein.-con. deck girder span; No. 3125, 2 rein.-con. abutments, 36 ft. steel trusses, hauled 9 mi. About $11,600. Work will be readvertised. W. J. Buckley, Pine City, engr. Noted Aug. 14.

**Kan., Bonner Springs**—Comrs. Wyandotte Co., (Kansas City), soon let contract building 100 ft. steel pony truss with concrete flooring and abutments, 22 ft. wide, near here. O. K. Williamson, Kansas City, engr.

**Mo., Fulton**—See "Streets and Roads."

**Wash., Spokane**—City plans to build 110 ft. concrete arch bridge, 34 ft. wide, over Hangman Creek on Riverside Ave., involving 27,000 cu.yd. earth approach and fill. About $25,000. A. D. Butler, city engr.

**Cal., Red Bluff**—Bd. Supervs. Tehama Co. having plans prepared by Weeks & Day, engrs., Phelan Bldg., San Francisco, for 17 concrete bridges along state highway. Bids for first bridge will be received in September. Bonds for $521,000 voted for project. Noted July 24.

### BIDS DESIRED

**N. Y., Long Island City**—Until Sept. 3, by M. E. Connolly, pres. Queens Boro., building timber deck bridge on site of Flushing Incinerator, 31st Ave. between 130th and 131st Sts., 3rd Ward.

**Pa., Norristown**—Until Sept. 22, by W. D. Heebner, controller Montgomery Co., building rein.-con. bridge of 10 arch spans and 9 rein.-con. girder spans with retained fill approaches, over Schuylkill River, Schuylkill Canal and Phila. & Reading Ry. Co. tracks, between Conshohocken and West Conshohocken; advertised in this issue.

**Va., Portsmouth**—Until Sept. 15, by W. B. Bates, city mgr., building 686 ft. creosoted wood pile bent bridge, 20 ft. wide, earth filled approaches, over Bain's Creek from west end of King St. to Olive Branch Cemetery, including draw span. Alternate bids will be received for steel or concrete bridge.

**O., Columbus**—Until Sept. 9 by Comrs. Franklin Co., building superstructure for (1) Hayden Run Bridge over Hayden Run, on Dublin Pike, Norwick Twp., 66 ft. long and 21 ft. single track clear roadway; (2) Taylor Bridge (a) over Rocky Fork Creek on Taylor Pike, Plain Twp., 45 ft. long and 18 ft. single track clear roadway; (3) Taylor Bridge (b) over branch of Rocky Fork Creek on Taylor Pike at Lorenzo Taylor Farm, Plain Twp., 38 ft. long 18 ft. single track roadway; (4) 42 ft. bridge over Rocky Fork Creek on Boehm Rd. at Anna Brown Farm, Plain Twp., 18 ft. single track clear roadway; (5) 32 ft. bridge over North Fork of Indian Run on Brand Rd. at Jeremiah Cosgray farm, Washington Twp., 16 ft. single track clear roadway; (6) 43 ft. bridge over North Fork Indian Run at Mary Hutchinson Farm, Washington Twp., 16 ft. single track clear roadway; (7) 38 ft. bridge over North Fork of Indian Run at John Dun Farm on Jerome Rd., Washington Twp., 16 ft. single track clear roadway; (8) laying creosoted lumber and block floor on bridge over Black Lick Creek at intersection of Reynoldsburg and Black Lick Pikes and East Broad St., Jefferson Twp., 106 ft. long and 18 ft. wide. W. J. Herman, clk.

**O., Columbus**—Until Sept. 10, by Comrs. Franklin Co., building Platter Bridge, 24 ft. wide, over Big Walnut Creek, on Lockbourne Rd., Hamilton Twp. Superstructure involves 1,095,260 lb. steel, 26,771 lb. reinforcing steel and 167 cu.yd. concrete; substructure involves 2200 cu.yd. dry and 480 cu.yd. wet excav., 80 cu.yd. Class "A" and 1100 cu.yd. Class "B" concrete; approaches involve 6328 sq.yd. bituminous concrete, 7000 cu.yd. excav., 5540 sq.yd. waterbound macadam and 6134 lin.ft. penetration macadam berme; also re-erecting span from old Broad St. Bridge, Columbus. About $200,000. J. A. Dun, Court House, engr.

**Ill., Danville** — Until Sept. 9, by Vermillion Co., building bridge in Div. No. 7, Vance Twp. P. C. McArdle, engr.; advertised in this issue.

**Wis., Lake Geneva**—Until Sept. 9, by J. Skeels, city engr., building Lake Geneva Bridge, 40 ft. rein.-con. arch with baluster railing, including 368 cu.yd. concrete and 11,840 lb. steel, etc.

**Arkansas**—See "Streets and Roads."

**New Mexico**—Until Sept. 15, by State Highway Comn., Santa Fe, paving and building bridges on 5.396 mi. State Rd. 13, Sects. 2 and 3, Lincoln Co., known as Federal Aid Project No. 11, involving 9579 cu.yd. class 1, 1295 cu.yd. class 2, and 2295 cu.yd. class 3 excav., 2615 station yd. overhaul, 4576 cu.yd. two cource gravel surfacing, 706 lin.ft. 18 in. and 68 lin. ft. 24 in. corrugated metal culverts, 64 cu.yd. class B 19 cu.yd. class C concrete, 608 lin. ft. wooden piling, 8328 ft. B. M. wooden substructure and 21,864 ft. wooden superstructure. L. A. Gillett, c/o State Highway Dept., engr.

**New Mexico**—See "Streets and Roads."

**Wash., Pasco**—Until Sept. 17, by Auditor Franklin Co., Pasco, building 1556 ft. steel bridge over Snake River, near here, consisting of one 301 ft. cantilever, two 259 ft. anchor arm, two 260 ft. and one 217 ft. spans, and approaches for Franklin and Walla Walla Counties. Noted Apr. 24 under "Walla Walla."

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Apollo**—Comrs. Armstrong and Westmoreland Counties let contract repairing joint county bridge, here, to Farris Eng. Co., Empire Bldg., Pittsburgh, $15,274. Noted July 24.

★**W. Va., Morgantown**—Comrs. Monongalia Co. let contract building 2 rein.-con. bridges, to B. M. Chaplin Co., Morgantown, $15,224.

★**Ala., Birmingham**—Bd. Revenue Jefferson Co. let contracts to J. H. Scruggs Constr. Co., Amer. Trust Bldg., for rein.-con. bridge over Elyton Canal, on 3rd Ave.,

Bridges (Continued)

80 ft. long, 115 ft. wide, $23,320; to A. E. Bearden removing substructure of steel bridge from Lewisburg to Brookside cut-off road, $5326; to Southern Bridge Co., 39th St., removing, dismantling and re-erecting same, $4175. Noted July 17.

★**Michigan**—State Highway Comn., Lansing, let contract to J. P. Rusche, Grand Rapids, building 200 ft. rein.-con. arch bridge, over Thornapple River, consisting of one 70 ft. and two 65 ft. spans, involving 598 cu.yd. rein.-con., 882 cu.yd. concrete, 25 tons steel, State Trunk Line Bridge No. 93, Kent Co., cost, $38,000; to Denton & Johnson, Saginaw, building 260 ft. rein.-con. bridge, over Cass River, in Bridgeport Twp., two 130 ft. low Pratt trusses, abutments, pier and floor, involving 104 cu.yd. rein.-con., 784 cu.yd. concrete and 150 tons steel, State Trunk Line Bridge No. 127, Saginaw Co., $17,100.

**Wis., West Bend**—Parsons & Orbert, engrs., 627 M. & M. Bank, Milwaukee, received bids building 50 ft. rein.-con. and steel bridge, 22 ft. wide, on Main St., here, for city, from J. Schneider Constr. Co., Main St., Menasha, $17,860; Michie Constr. Co., Grand Ave., Milwaukee, $18,900; Berres & Baer, West Bend, $22,150. Noted July 31.

★**Ia., Sioux City**—City let contracts building twenty-one 16 x 32 ft. I-beam bridges, and one 16 x 60 ft. pony truss bridge, to Clinton Bridge Co., 101 South 2nd St., Clinton, $14,200; one 16 x 90 ft. pony truss bridge with concrete flooring and 1 concrete abutment, to Pickens Eng. Co., Sioux City, $9485.

★**Minn., Duluth**—St. Louis Co. let contracts to Strom Bros., Two Harbors, building bridge on McQuade Rd., $2120, Ryan Rd. over Sucker River, $3345; McCabe & McCabe, 602 Metropolitan Bank Bldg., Minneapolis, Morris Thomas Rd., over small stream, $1180, Decker Rd., over small stream, $2745; Wausau Iron Wks., Wausau, Wis., State Rd. No. 1 over Little Fork River, $5994; Wakefield Rd. over Little Fork River, $7457, Kelsey-Brimson Rd., over Whiteface River, $8234, Floodwood-Cromwell Rd., over small stream, $8990, Alborn-Brookston Rd., over St. Louis River, $31,919, Ditch Rd. No. 6-20, over St. Louis River, $11,911, Vermilion Rd., over St. Louis River, $12,041; Asby & Maturi, Hibbing, 2 bridges on Vermilion Lake Rd., over small stream, $3218, on State Rd. No. 1 over small stream, $1930, 5 bridges on Vermilion Lake Rd., over small streams, $12,820, Goodwell Rd. over Sturgeon River, $9316, Everett Rd. over small stream, $5786, Chisholm Rd., over small stream, $3800, Heino Rd., over small stream, $3300, 3 bridges on Chisholm Rd. over Sturgeon River, $29,965; Iowa Bridge Co., 712 Hubbell Bldg., Des Moines, Ia., Burnside Rd. over small stream, $2607; D. Graham 325 Worthington St., Hibbing, bridges on Floodwood-Cromwell Rd., over little streams $9335, Savana Rd. over Savana River, $7231; L. E. Baum, Floodwood-Cromwell Rd., over small stream, $1669. Noted July 24.

★**Wash., Everett**—Comrs. Snohomish Co. let contract building 180 ft., steel span with 2 concrete piers and trestle approach, to N. Fleiness, Seattle, $18,971.

★**Cal., Dismores**—Comrs. Humboldt Co., Eureka, let contract building rein.-con. arch bridge over Little Van Duzen Creek, near here, to Padgett & Kelly, Eureka, $29,858.

★**Cal., West Butte**—Bd. Supervs. Sutter Co., (Yuba City) rejected bid building rein.-con. bridge over Butte Slough, near here. Work will be done by day labor under supervision of E. Von Geldern, co. surv. Noted Aug. 7.

★**Cal., Willows**—Bd. Supervs. Glenn Co. let contracts to F. H. Nielson, 8th St., Orland, building 3 concrete bridges over Willow, Salt and Westberg Creeks, cost, $17,160; also rein.-con. bridge over Stoney Creek near Winslow, $23,420. Noted June 24.

★**Que., St. Adelaide**—Municipal Council let contracts building substructure for concrete and steel bridge over De Palos Creek, to C. Lamb, Chandler, steel contract to McKennon, Holmes & Co., Sherbrooke. Total cost about $18,500.

## Reinforced Concrete

### PROPOSED WORK

**N. Y., Port Chester**—See "Industrial Works."

**Virginia**—See "Bridges."

**Ore., Portland**—See "Industrial Works."

### BIDS DESIRED

**Pa., Norristown**—See "Bridges."

**Pa., Phila.**—See "Industrial Works."

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Phila.**—See "Industrial Works."

★**Pa., Pittsburgh** — See "Industrial Works."

★**Ala., Birmingham**—See "Bridges."

**Cal., Dismores**—See "Bridges."

## Streets and Roads

### PROPOSED WORK

**Conn., Brookfield** — City appropriated $20,000 to repair old roads and build new road from Mansfield Home to Iron Wks. Engineer not selected.

**Conn., Milford**—City having plans prepared for 1½ mi. asphalt road on 6 in. concrete base. About $50,000. V. B. Clark, City Hall Bldg., Ansonia, engr.

**N. Y., S. I., St. George**—C. D. Van Name, pres. Richmond Boro, received bids repaving with wood block within the franchise area of the Richmond Light & R.R., etc., from J. Johnson Sons, Port Richmond, $114 673; J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $127,936; C. Vanderbilt, 24 Elizabeth St., West New Brighton, $134,795.

**N. J., Hoboken**—City soon lets contract grading, paving and improving Jefferson St. from 8th to 13th Sts., granite block. About $50,000. Noted July 17.

**Pennsylvania**—State Highway Dept., Harrisburg, received no bids Aug. 19, building 11,640 ft. rein.-con., Gilpin Twp. Armstrong Co. Noted July 31.

**Pennsylvania** — State Highway Dept., Harrisburg, rejected bids for 8118 ft. rein.-con. Route 59 and 13,027 ft. rein.-con. and Hillside vitr. brick Route 60, Clearfield Co., 5950 ft. rein.-con. and Hillside vitr. brick, Route 247, Sect. 4, Fayette Co.; 41753 bituminous surface course on concrete foundation or rein.con., Route 195, Dauphin and Perry Counties; 25,737 ft. bituminous surface course on concrete foundation or rein.-con. Route 68, Juniata and Synder Counties, Routes 195 and 229; 32,047 ft. rein.-con. and Hillside vitr. brick, Westmoreland Co. Noted Aug. 14.

**Pa., Chartiers** (Pittsburgh P. O.)—Town soon lets contract grading, paving and curbing Lakewood Ave. from Pittsburgh City Line to Oak St., involving 2060 sq.yd. vitr. brick, on 6 in. concrete base, 1730 lin.ft. concrete curbing, 10,840 cu.yd. earth excav. and 1247 cu.yd. fill. Andrews & Southard, 509-10 Curry Bldg., Pittsburgh, twp. engrs.

**Pa., Gallitzin**—H. F. Conrad, boro. secy., 706 Hemlock St., soon lets contract paving Dauson Rd., 20 ft. wide, involving 3000 sq.yd. 1 course rein.-con. on 5 in. concrete base, 100 lin.ft. concrete curbing and 1000 cu.yd. excav. About $25,000. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engr.

**Pa., Pittsburgh**—City plans to grade, pave and curb Caton St. from Beechwood Blvd. to Shady Ave., cost $30,000, Pioneer Ave. from West Liberty Ave. to Brookline Blvd., $180,000. Fort Hill Rd. from Fernleaf to Sterling Sts., $13 000, Oberlin St. from Lemington Ave. to Sprague St., $41,000 Eccrue Way from Kelly St. to Felicia Way, $8400, vitr. brick and stone block on 6 in concrete base, concrete curbing. N. S. Sprague, city engr.

**Pa., Scranton**—City plans to grade and pave Vine St. from Taylor Ave. to Arthur Ave., 17th Ward, sheet asphalt and stone blocks on concrete base. About $39,716. W. A. Schunk, city engr.

**W. Va., Buckhannon**—Comrs. Upshur Co. rejected bids received Aug. 11, paving 10.4 mi. 16 ft. cement concrete pavement on certain streets of Buckhannon and 4 main roads radiating from the city. Work will be readvertised. About $250,000. W. C. West, co. rd. engr. Noted July 31.

**W. Va., Charleston** — Kanawha Co. voted bonds and having plans prepared paving Cabin Creek Kayford Rd., $165,000, Paint Creek Rd., $85,000, Kelly's Creek Rd., $10,000, South Side River Rd., $400,000, North Side River Rd., $250,000. (all in Cabin Creek Dist.), Ruffner Hollow-Elk View Rd., $50,000, Indian Creek Rd., $50,000, Elk River (south side), $100,000, Elk River (north side), $200,000, (all in Elk Dist.) Cambells Creek Rd., Malden Dist., $80,000, Point Pleasant Pike, $10,000, North Side Rd., $35,000, Dunbar Rd., $114,000. (all in Union Dist.) Noted June 7 and July 3.

**W. Va., Charleston** — "See Buildings."

**W. Va., Elkins**—Randolph Co. voted $80,000 bonds to improve roads in Beverly Dist. F. A. Parsons, co .engr. Noted July 3.

**W. Va., Parsons**—Tucker Co. plans to pave and drain 6¾ mi. Parsons-Elkins Rd. 24 ft. wide, involving 34,000 cu.yd. excav., etc. About $57,150. H. N. Freeman, Parsons, engr.

**W. Va., Petersburg**—Comrs. Grant Co. plan to grade 9 mi. Pansy-Arthur Rd. 16 ft. wide. About $47,200. E. C. Smith, Piedmont, engr.

**W. Va., Sutton**—Comrs. Braxton Co. plan to grade 9.6 mi. McNutt-Napier Rd. 16 ft. wide. About $79,875. F. J. Walsh, Charleston, engr.

**W. Va., West Union**—Comrs. Doddridge Co. plan to improve 17½ mi. road from Harrison to Tyler County lines. About $622,377.

**Fla., Palmetto**—City voted $60,000 bonds to pave streets.

**Miss., Meridan**—Dist. No. 1 of Lauderdale Co. voted $100,000 bonds to rock surface trunk roads in district.

**Miss., Quitman** — Clarke Co. voted $65,000 bonds to build Burlington Highway to connect with Lauderdale Co., rock.

**La., Lafayette**—City election Sept. 11, to vote on $350,000 bonds to pave, gravel, drain and extend water mains.

**Michigan**—State Highway Dept., Lansing, soon lets contract shaping, draining and macadam surfacing 5.737 mi. State Trunk Line Project 12-2, 16 ft. wide; Delter Co. involving 17,576 cu.yd. earth excav., 5,788 sq.yd. waterbound macadam, 10,265 lb. reinforced steel and 363 cu.yd. concrete; shaping, draining and gravel surfacing 2.458 mi. State Trunk Line Rd. 44-I, Ionia Co., 7881 cu.yd. earth excav. and 23,077 sq.yd. gravel. F. F. Rogers, state highway engr.

**Michigan**—State Highway Dept., Lansing, having surveys made grading, shaping, draining and surfacing 10 mi. Saginaw Turnpike, Oakland Co., from Potters Corners to Genesee Co. line.

**Mich., Detroit**—Dept. Pub. Wks. soon lets contract furnishing labor and material for trenching, laying vitr. pipe and building manholes, etc., in lateral sewer No. 3114, in block bounded by Erwin, Rohns, Bessemore and Georgia Sts.; No. 3115, by Iroquois, Peter, Hunt and Bessemore Sts.; No. 3141, by 12th, Idaho, Terminal R.R. and Midland Sts.; No. 3144, by Greenwood, 4th, and Merrick Sts. and Reed Pl.; No. 3145, by Dexter, Lawton, Boston and Calvert Aves.; No. 3146, by Wildemere, Linwood, Boston and Calvert Aves.; No. 3147, by Dexter, Lawton, Calvert and Lawrence Aves.; No. 3148, Wildermere, Linwood, Calvert and Lawrence Aves.; No. 3149, by Dexter, Lawton, Lawrence and Webb Aves.; No. 3151, by Wildermere, Linwood, Lawrence and Webb Aves.; No. 3171, west line of Cody's sub., McDonald, Vernor and Wheeler Sts.; No. 3172, by Turner, Livernois, Elmhurst Aves. and north line Green's sub.; No. 3173, by 12th, Hamilton, Burlingame and Webb Aves.; No. 3174 by Newport, Philip, Old City line and Mack Aves.; No. 3177, Malvern from Van Dyke to Maxwell St.; No. 3178, by Drexel, Newport, Old City line and Mack Aves.; No. 3187, Log Cabin, West line Highland Park, Fenkell and Puritan Ave.; No. 3189, by Shelby, Griswold, Michigan and State Sts.; No. 3190, by Cadillac, Bewick Aves., and North of Warren St., involving 50.658 lin.ft. 10-33 in. pipe, 157 manholes. C. W. Hubbell, city engr.

**Ill., Chicago**—Bd. Local Impvts. rejected bids received July 23rd, paving Homer St. from Albany to Kedzie Aves., North Latrobe, North Lockwood and North Long Aves., from Grand to Fullerton Aves., Dickens St. from Laramie to Lockwood Aves., Palmer and Belden Aves., from Laramie to Long Aves., Wrightwood, Gole Pine Groves Aves. and Hampton and Lehman Courts. Noted July 17.

**Ill., Chicago**—Bd. Local Impvt. rejected bids received Aug. 1, paving alley between Montrose, Cullom, Ashland and Paulina Aves., alley between Addison St., Cornelia Ave., Halsted St. and Reta Ave., alley between Harrison and Flournoy Sts., Spaulding and Homan Aves., alley between Van Buren, Congress, Washtenaw Sts. and California Ave., alley between Blackhawk and Division Sts., Holt and Dickson Aves., alley between Fillmore and 12th Sts., Francisco Ave. and Richmond St., alley between Chicago Ave., Superior St., Hoyne Ave. and Leavitt St. C. D. Hill, ch. engr. Noted Aug. 14.

Streets and Roads (Continued)

**Wis., Manitowoc**—City plans to grade and pave with 1 course concrete and build sidewalks with combined curb and gutter on 1.8 mi. Manila St., 26 ft. wide. Engineer not selected.

**Wis., Manitowoc**—A. H. Zander, engr., City Hall, soon lets contract grading, curbing, guttering and paving with 2 course rein.-con. 1.9 mi. 18th St. from Wollmer to North End., 18 ft. wide, involving 12,500 sq.yd. concrete. About $25,000.

**Ia., Leon**—City retained Shockley Eng. Co., engrs., 740 Reserve Bank Bldg., Kansas City, Mo., to prepare plans paving 53 blocks, 24-28 ft. wide, involving 30,000 to 40,000 sq.yd. asphaltic concrete, sheet asphalt, bitulithic, brick or concrete. About $125,000.

**Minn., Grand Rapids**—Itasca Co. voted $2,000,000 bonds to build roads. R. W. Action, Duluth, engr. Noted July 31.

**Kan., Bonner Springs**—City plans to oil and place screenings on 50,000 sq.yd. macadam pavement also patch and repair old macadam. About $10,000. Shockley Eng. Co., 740 Reserve Bldg., Kansas City, Mo., engrs.

**Kan., Frankfort**—City having plans prepared by Shockley Eng. Co., engrs., 740 Reserve Bank Bldg., Kansas City, Mo., building 6600 ft. 2nd, Walnut and 4th Sts., 18 ft. wide, gravel. About $20,000. Cost to be borne by city, state and Federal Government.

**Kan., Kansas City**—Comrs. Wyandotte Co. soon let contract grading, paving and building culverts on 1¼ mi. Wilson Rd., 18 ft. wide, concrete.

**Kan., Mound City**—Linn Co. having plans prepared by C. Jacoby, engr., 527 Shukert Bldg., Kansas City, Mo., building 12 mi. Federal Aid Highway, 18 ft. wide, waterbound macadam.

**Kan., Troy**—City retained Archer & Stevens, engrs., New England Bldg., Kansas City, Mo., to prepare plans for 30,000 sq.yd. pavement, 30 ft. wide. About $100,000.

**Kan., Washington**—City retained Black & Veatch, engrs., Interstate Bldg., Kansas City, Mo., to prepare plans for paving and curbing 9 blocks various streets, vertical fibre brick.

**Neb., Ralston**—Village soon lets contract paving 1½ mi. 75th, 77th, 79th, Oakwood, State, Serum, Maywood and Miller Sts., involving 20,080 sq.yd. paving and 15,000 lin.ft. curbing. About $69,087. H. A. Nelson, 424 Bee Bldg., Omaha, engr.

**Mont., Conrad**—Pondera Co. election soon to vote on $150,000 bonds to build roads. Federal Government will appropriate toward cost. J. N. Edy, State Highway Dept., Helena, engr.

**Mont., Mondak**—Roosevelt Co. election soon to vote on $200,000 to build roads. Federal Government will appropriate toward cost. J. N. Edy, c/o State Highway Dept., Helena, engr.

**Mo., Fulton**—Comrs. Callaway Co. retained Shockley Eng. Co., 740 Reserve Bank Bldg., Kansas City, Mo., to prepare plans grading, graveling, building culverts and bridges on 19 mi. road, 9 ft. wide, in New Bloomfield Special Rd. Dist. About $140,000

**Tex., Amarillo**—Potter Co. voted $750,000 bonds to improve Highways Nos. 5, 13 and 33, branching out from here. R. C. Johnson, co. judge.

**Tex., Bastrop**—Bastrop Co. plans to improve, gravel surface and build concrete drainage structures on 8.51 mi. Highway No. 3-A, from Travis Co. line southeast, 16 ft. wide. About $60,000. J. B. Price, co. judge. A. L. White, c/o State Highway Dept., Austin, engr.

**Tex., Clarksville**—Red River Co. rejected bids gravel surfacing and building concrete drainage structures and bridge on 16 mi. Highway No. 35 known as "Choctaw Trail," 14 ft. wide. P. V. Creager, Clarksville, engr. Noted Aug. 21.

**Tex., Coledan**—Coleman Co. election Sept. 27, to vote on $500,000 bonds to macadamize, gravel and pave roads in Precinct No. 8. W. M. Weathered, co. judge.

**Tex., Highland Park** (San Antonio P. O.)—City voted $110,000 bonds to pave 15,000 sq.yd. various streets. Myers & Noyes, Highland Park, engrs.

**Tex., McKinney**—Collins Co. plans to build 25 mi. Henry Exall or State Highway No. 6, 16 ft. wide, macadam base 7 in. compact; all bridges and culverts of rein.-con. About $328,932. J. B. Crokett, McKinney, engr.

**Tex., Mt. Vernon**—Franklin Co. rejected bid gravel surfacing 11.13 mi. and concrete surfacing 1.24 mi., also building concrete drainage structures on Highway No. 1 from Hopkins to Titus Co. line, 9 mi. 14 ft. wide. Work will be readvertised. Noted Aug. 7.

**Tex., Port Arthur**—City plans to improve 40 mi. streets in business section. About $270,000. L. A. Witter, clk.

**Okla., Collinsville**—City retained Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., to prepare plans for 6500 ft. brick or asphaltic concrete pavement, 33 ft. wide. About $100,000.

**Okla., Nowata**—City plans to improve streets, involving 53,000 sq.yd. pavement, 41,581 cu.yd. excav., 41,951 ft. curb and gutter, 2381 ft. curb, 840 ft. double gutter, also 5000 ft. 10-24 ft. storm sewers, 17 manholes and 51 catchbasins. Archer & Stevens, 609 N Eng. Bldg., Kansas City, Mo., engrs.

**Okla., Oilton**—Creek Co. election Sept. 16, to vote on $1,000,000 bonds to build 85 mi. highway. M. C. Binkley, co. highway engr.

**Idaho**—State Highway Comn., Boise, having plans prepared for grading and surfacing with crushed rock 22.4 mi. Lewiston-Moscow Rd. About $307,000. D. P. Olson, state highway engr.

**Idaho, Buhl**—City soon lets contract paving 154,000 sq.yd. streets in Paving Dist. No. 2, 5 in. crushed rock and asphalt base with 2 in. bitulithic surface. C. J. Kalina, clk.

**Idaho, Wallace**—Comrs. Shoshone Co. plan to grade 3 mi. Kellogg-Wallace Rd., 24 ft. wide. About $70,000. W. J. Bassett, Cœur d'Alene, engr.

**Utah**—State Highway Comn., Salt Lake City, soon lets contract building 24 mi. road from Moab to La Salle, Federal Aid Project No. 6, earth and gravel 18 ft. wide, also 38 mi. road from Thompson Springs to Moab, Federal Aid Project No. 5, earth, 18 ft. wide. I. R. Browning, state highway engr.

**Ariz., Tucson**—Pima Co. election Sept. 23, to vote $1,500,000 bonds building county highways.

**Wash., Vancouver**—City plans to pave East 22nd St., concrete or asphaltic concrete. About $30,000. W. Schwarz, city engr.

**Oregon**—State Highway Comn., Salem, soon receives bids paving 15 mi. John Day east section of Columbia River Highway, Gilliam Co., involving 55,000 cu.yd. common, 54,000 cu.yd. rock, and 15,000 cu.yd. intermediate excav., 200 sq.yd. concrete, 1638 lin.ft. 12-36 in. concrete or corrugated iron culvert, 114,300 cu.yd. overhaul, 1020 yd. overbreak, 540 cu.yd. rock wall. About $350,000. H. Nunn, state highway engr.

**Ore., Ashland**—City plans to grade and pave Ashland Blvd., bitulithic type E on crushed rock or gravel base. About $20,000.

**Ore., Astoria**—City Council adopted resolution to pave Glasgow and Agate Sts. from Florence to Almeda Sts., 24 ft. wide, concrete Nos. 1 and 2, or asphaltic concrete pavement and concrete curbs. About $11,000. E. G. Gearhart, city aud.

**Ore., Bend**—City soon lets contract paving Newport Ave., cost $12,116, Wall St., $1058, West 5th St., $605, concrete or asphaltic concrete. R. B. Gould, city engr.

**Ore., Clatskanie**—City Council adopted resolution to improve Nehalem and Bridge Sts., to include grading, filling, constructing concrete curbs, laying sewer and drainage pipes. About $10,000. G. B. Conyers, city recdr.

**Ore., Portland**—City Council soon lets contract paving portions of 45th St., S. E., 53rd, Vernon and Linn Aves., and East 60th St. from East Glisan to Oregon Sts., concrete, asphaltic concrete on crushed rock base, bitulithic and gravel macadam, cost $50 000; Olin St., Elliott and East 30th Aves., 46th Ave., S. E., from 67th to east line Kern Park, also Killingsworth Ave., sheet asphalt, concrete Nos. 1 and 2, gravel macadam, and building artificial stone or asphaltic concrete sidewalks. O. Laurgaard, city engr.

**Ore., Portland**—City rejected bids paving Killingsworth Ave. and East 30th St. O. Laurgaard, city engr. Noted Aug. 21.

**Ore., Portland**—City plans to improve Portsmouth Ave. from Willis Blvd. to Columbia Slough, cost $5806, East 19th St. from Pacific St. to Holladay Ave., $1517, East Pine St. from East 20th to East 22nd Sts., $891, 41st St. from Francis Ave. to Hall's Addition, $1279, East 8th St. from Madrona to Holland Sts., $1324, concrete or bitulithic. O. Laurgaard, city engr.

**Ore., Tillamook**—City plans to pave remaining unpaved portions of 7th and 3rd Sts., asphaltic concrete or concrete Nos. 1 and 2. About $10,000. F. B. Stranahan, city recdr.

**Ore., Tillamook**—City Council adopted resolution to grade and pave with concrete, asphaltic concrete or bitulithic Stillwell and 1st Aves., 9th, 10th, 11th and 12th Sts. About $13,200. F. B. Stranahan, city recdr.

**Cal., Long Beach** — City plans to pave 6 blocks Anheim St., 60 ft. wide, concrete and bituminous surface. F. Hoffman, city engr.

**Que., Montreal**—City Council soon lets contract paving 3000 ft. Belgrave Ave., 30 ft. wide, bituminous macadam cost, $12 000; 2000 ft. Elmhurst St., 30 ft. wide, asphalt, $8000; 3000 ft. Hortubise St., 30 ft. wide, asphalt, $12,000; also building 15,000 ft. sidewalks on Northcliff Ave. from Sherbrooke to Notre Dame and Grace Sts.; 4000 ft. Wilson Ave. from Sherbrooke St. to Canadian Pacific Ry. tracks; 5000 ft. Old Orchard Ave. from Church to Munkland Sts.; 900 ft. St. Marguerite St. from St. Antoine to Richelieu Sts.; 7000 ft. St. Emile St. from Courcelles St. to Beaudoin Sts.; 1000 ft. Sir. George E. Cartier Park from St. Emile St. to Canadian Pacific Ry. tracks, all to be 4 ft. wide, $32,500.

**Ont., Ft. William**—C. B. Dynes, city engr., soon lets contract for 1550 lin.ft. curb and gutter and 4300 sq.yd. asphalt, asphaltic concrete or bitulithic pavement on 6-in. concrete base.

**Ont., Ottawa**—City soon receives bids paving Booth St. from Somerset St. to Grand Trunk Ry., St. Patrick St. from Sussex St. to MacKenzie Ave., Murray St. from Cumberland St. to King Edward Ave., and Goulburn Ave. from Somerset to Osgoode Sts., asphalt and wood block on concrete base. About $45,000. A. F. McCallum, City Hall, engr.

**Ont., York**—Town plans to build ½ mi. tarvia road, 24 ft. wide, and 15,000 ft. 4 and 4½ ft. concrete walks part with integral curbs, on Weston Rd., Bernice and Crescent Sts., Dennes and Woodbine Aves. About $35,000. F. Barber, 40 Jarvis St., Toronto, engr.

### BIDS DESIRED

**Connecticut** — Until Sept. 2, by State Highway Comn., Capitol, Hartford, improving 16,060 ft. Thomaston Rd., Watertown Twp., 5365 ft. Bantam Lake Rd., Litchfield Twp., 10,450 ft. Bethlehem-Bantam Lake Rd., Litchfield and Morris Twps., 4378 ft. Coventry Rd., Bolton Twp., 4150 ft. Silver Lane, East Hartford Twp., 6300 ft. Piquot Ave., Fairfield Twp., all bituminous macadam, 18,400 ft. road from Thompson to Webster, Thompson Twp., 3 in. bituminous macadam over 5 in. base, 5175 ft. Short Beach Rd., East Haven Twp., 3837 ft. Grove St., Putnam Twp., 11,734 ft. Branchville Rd., Ridgefield Twp., concrete. C. J. Bennett, state highway comr.

**N. Y., Brooklyn**—Until Sept. 3, by E. Riegelmann, boro. pres., regulating and grading, Cleveland St. from New Lots Rd. to Hegeman Ave., regulating, curbing and laying sidewalks on Cleveland St. from New Lots Rd. to Hegeman Ave., West 11th St. from Ave. S to Ave. T, regulating, curbing and paving with permanent asphalt on 6 in. concrete foundation, roadway of Colonial Rd. from 76th to 77th Sts., regulating and paving with permanent asphalt on 6 in. concrete foundation, Colonial Rd. from 85th to 86th Sts., 66th St. from 19th to 20th Aves., regulating, grading, curbing, laying sidewalks and paving with permanent asphalt and Grade 1 granite on 6 in. concrete foundation, portion of roadway west of railroad tracks of New Utrecht Ave. from point 71 ft. north of Ovington Ave. to Bay Ridge Ave., regulating, grading, curbing and laying sidewalks on West 11th St. from Ave. R to Ave. S, 20th Ave. from 82nd to 83rd Sts., regulating and paving with permanent asphalt on 6 in. concrete foundation, roadway of 66th St. from 19th to 20th Aves.

**New Jersey**—Until Sept. 12, by State Highway Comn., Broad St. Bank Bldg., Trenton, improving 3865 sq.yd. State Highway Route No. 1, Sect. 1A, Metuchen Twp., Middlesex Co., concrete. A. L. Grover, ch. clk.; advertised in this issue.

**New Jersey**—Until Sept. 10, by State Comn., Broad St. Bank Bldg., Trenton, repairing State Highway Route No. 1, from Trenton to New Brunswick and from New Brunswick to Elizabeth, also State Highway Route No. 4, from Rahway to Betsey Ross Farm near Middleton. A. L. Grover, ch. clk.; advertised in this issue.

Streets and Roads (Continued)

**N. J., Newton**—Until Sept. 2, by Bd. Freeholders Sussex Co., paving 37,000 sq.yd. Ross Corner-Sussex Rd., bituminous penetration surface on macadam foundation. R. L. Slater, clk.

**N. J., Trenton**—Until Sept. 9, by Bd. Freeholders Mercer Co., repaving East State St. and Whitehead's Rd., Hamilton Twp., involving 8620 sq.yd. sheet asphalt and 2220 sq.yd. Hillside brick on Portland cement concrete base. G. H. Royle, dir. New Roads Dept.; advertised in this issue.

**Pa., Bellevue** (Pittsburgh P. O.)—Until Sept. 2, by Borough Council, grading, paving and curbing section of Irwin Ave. Work involves 2660 cu.yd. grading, 800 lin. ft. dressed curb and 2140 sq.yd. brick paving. P. H. Martin, 331 4th Ave., Pittsburgh, boro. engr.

**Pa., Duquesne**—Until Aug. 30, by City Clerk, grading, paving and curbing 1550 lin. ft. Crawford Ave. from Wood St. to Centre Ave., 30 ft. concrete pavement with integral curb, 550 lin.ft. Wool St. from Crawford to Burns Aves., 24 ft. concrete pavement with integral curb, 650 lin.ft. Viola Ave. from South 5th to Auriles Sts., 24 ft. wide, 320 ft. South 6th St. from Viola to Priscilla Aves. 24 ft. wide, 320 lin.ft. Poplar Alley from Viola to Priscilla Aves., 15 ft. driveway. Alternate bids will be received on concrete pavement with integral curb and repressed vitr. paving block on furnace slag foundation with concrete combination curb and gutter on Viola Ave., from South 6th St. and Poplar Alley. R. B. Dell, city engr. J. Olson, supt. streets and pub. impvts.

**Pa., Emsworth** (Pittsburgh P. O.)—Boro. receiving bids grading, paving and curbing Locust St. with vitr. brick and stone curbing. About $15,000. P. H. Martin, 331 4th Ave., Pittsburgh, engr. Noted Aug. 14.

**Pa., Pittsburgh**—Until Sept. 3, by City Controller, grading, paving and curbing McCandless St. from 53rd to 56th Sts., vitr. brick or stone block on 6 in. concrete base. N. S. Sprague, City County Bldg., engr. Noted Aug. 7.

**Md., Baltimore**—Until Sept. 3, by Bd. Awards, raising and renewing curbs and sidewalks on University Parkway Bridge over Stoney Run, involving 1950 sq.ft. cement footway, 100 ft. new armored concrete curb and 250 ft. armored concrete curb raised. G. F. Weighardt, city engr.

**W. Va., Huntington**—Until Sept. 3, by city, grading, paving and curbing alley between 19th and 20th Sts. and 9th and Artisan Aves., 20 ft. alley extending from 29th St. 75 ft. north of its intersection of Collis Ave. to 20 ft. alley in rear of what is known as Winters Rd., 10½ alley between 10th and 11th Aves. and 9th and 10th Sts., Court Alley from 9th to 10th Sts., 11th Ave. between 5th and 6th Sts., and 6th St. west from intersection of 11th Ave. to North Blvd., Blvd. Ave. and between east side of Washington Blvd. and west side 16th St., 15th St. from Blvd Ave. to Grove St., 9th Ave. between 1st and 5th Sts., Dresden Ave., between 17th and 20th Sts., Charleston Ave. from 12th St. to 14th St. (Shelton Lane), Charles St. between 10th Ave. and 9½ Alley, 4th St. between 7th Ave. and Chesapeake & Ohio Railway right of way. A. P. Maupin, city engr.

**W. Va., Lewisburg**—Until Sept. 16, by P. C. Hogsett, clk., Greenbrier Co., improving 20 mi. road in Meadow Bluff Dist., grading 26 ft. wide, paving 9 ft. wide. F. K. Rader, co. rd. engr.; advertised in this issue. Noted Aug. 21.

**N. C., Charlotte**—Until Sept. 4, at Dist. Office State Highway Comn., Greensboro, hard surfacing 14 mi. Charlotte-Monroe Rd., Mecklenburg Co. About $400,000. W. S. Fallis, c/o State Highway Dept., Raleigh, engr. Noted July 3.

**N. C., Whiteville**—Until Sept. 9, by city, paving 20,750 sq.yd. sheet asphalt and 12,280 lin.ft. concrete curb and gutter.

**Ga., Griffin**—Until Sept. 16, by Comrs. Spalding Co. building 4 mi. road between here and Pike Co. line, 18 ft. wide, involving 42,240 sq.yd. 6½ in. concrete. About $150,000. G. M. Harrington, Griffin, engr.

**Fla., Sanford** — Until Sept. 15, by City Council, paving and draining 1.5 mi. 9th St., brick. About $30,000. F. T. Williams, Sanford, engr.

**Miss., Tunica**—Until Sept. 1, by Bd. Supervs. Tunica Co. building 41 mi. gravel roads. T. Williams, clk.

**Tenn., Centerville — Until Sept. 10, by** Highway Comn. Hickman Co., improving various roads, involving 177,000 cu.yd. excav., drainage structures, etc. This is a section of system of roads designated under recent $225,000 bond issue. H. E. Hamilton, co. engr.

**Tenn., Dyersburg**—Until Sept. 2, by L. E. Carne, mayor, paving 4000 ft. Main St., et al., 30 ft. wide, involving 40,000 sq.yd. vitr. brick, asphalt, concrete or asphaltic concrete, 16,189 lin.ft. concrete curbing and guttering, 785 lin.ft. header, 3580 cu.yd. earth excav., etc. Blakeman & Brayton, Dyersburg, engrs.

**Ohio**—Until Sept. 12, by State Highway Comn., Columbus, building roads in following counties:

Adams Co., Sect. "R" Cincinnati West Union Rd., 6.255 mi. grading, constructing bridges and culverts and paving with waterbound macadam, cost $114,200.

Ashtabula Co., Sect. "B" Cleveland-Meadville Rd., 1.44 mi. grading and resurfacing with brick, $4279.

Columbiana Co., Sect. "E-1" Lisbon-Canton Southern Rd., .51 mi. grading, constructing bridges and culverts and paving with waterbound macadam, $19,765.

Galia Co., Sect. "E-2" Gallapolis-Ironton Rd., 1.015 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $23,168.

Guernsey Co., Sect. "K" Cambridge- Coshocton Rd., 2 mi., grading, constructing bridges and culverts and paving with Hillside brick, $8400.

Harrison Co., Sect. "N-1" Cadiz-Carrollton Rd., 2.46 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $63,581.

Sect. "N-2" Cadiz-Carrolton Rd., .48 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $12,146.

Henry Co., Sect. "C" Bryan-Napoleon Rd., 2.4 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $57,940.

Sect. "D-1" Bryan-Napoleon Rd., 9 mi., grading, constructing bridgs and culverts and paving with waterbound macadam, $27,123.

Jackson Co., Sect. "A" Portsmouth-Oak Hill Rd., 2.48 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $41,460.

Jefferson Co., Sects. "F" and "G-1" Ohio River Rd., 2.328 mi., grading, constructing bridges and culverts and paving with brick, $111,876.

Lawrence Co., Sect. "L" Ohio River Rd., 4.386 mi., grading, constructing bridges and culverts and paving with bituminous macadam or monolithic brick, $124,703.

Lorain Co., Sect. "Q" Milan-Elyria Rd., 1.21 mi., grading, constructing bridges and culverts and paving with rein.-con., $47,310.

Mahoning Co., Sect. "Y" Canfield-Poland Rd., 1.88 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $30,578.

Mercer Co., Sect. "D-2" Celina-Wabash Rd., 1.872 mi., grading, constructing bridges and culverts and paving with plain concrete, $52,099.

Sect. "G" St. Marys-Celina Rd., 5.49 mi., grading, constructing bridges and culverts and paving with plain concrete, $159,359.

Sect. "Celina" St. Marys-Celina Rd., .25 mi., grading and paving with plain concrete, $6917.

Montgomery Co., Sect. "C" Dayton-Germantown Rd., 3.35 mi., grading, constructing bridges and culverts and paving with rein.-con., $102,941.

Sect. "P" Dayton-Indianapolis Rd., .39 mi., grading and paving with semi-monolithic brick, $31,132.

Morgan Co., Sect. "H-1" McConnellsville-New Lexington Rd., 3.26 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $79,645.

Noble Co., Sect. "D" Caldwell-Woodsfield Rd., 3.929 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $92,440.

Sect. "E" Caldwell-Woodsfield Rd., 2.814 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $57,898.

Sect. "F" Caldwell-Woodsfield Rd., 2.719 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $59,833.

Perry Co., Sect. "Q" Newark-New Lexington Rd., 1.78 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $48,856.

Sect. "R" Newark-New Lexington Rd., 3.068 mi., grading, and paving with bituminous macadam, $77,786.

Sect. "P" Logan-New Lexington Rd., .1 mi., grading and paving with monolithic brick, $7513.

Sect. "E-2" Zanesville-New Lexington Rd., .2 mi., grading, and paving with brick, $7750.

Pickaway Co., Sect. "T-1" Columbus-Portsmouth Rd., .44 mi., grading, constructing bridges and culverts and paving with semi-monolithic brick, $23,881.

Portage Co., Sects. "T, U, V and W" Ravenna-Warren Rd., 10.467 mi., grading constructing bridges and culverts and paving with waterbound macadam, $218,473.

Ross Co., Sect. "A-1" Dayton-Chillicothe Rd., .76 mi., grading, constructing bridges and culverts and paving with concrete or monolithic brick, $25,370.

Sect. "B-1" Dayton-Chillicothe Rd., 1 mi., grading, constructing bridges and culverts and paving with concrete or monolithic brick, $29,386.

Scioto Co., Sect. "A-12" Portsmouth-Jackson Rd., 2 mi., grading, constructing bridges and culverts and paving with monolithic brick, $80,738.

Shelby Co., Sect. "F" Sidney-Wapakoneta Rd., 3.521 mi., grading, constructing bridges and culverts and paving with plain concrete, $102,570.

Sect. "G" Piqua-Sidney Rd., 2.065 mi., grading, constructing bridges and culverts and paving with plain concrete, $95,732.

Summit Co., Sects. "A, B, C, D and E" Akron-Cleveland Rd., 16.707 mi., grading, constructing bridges and culverts and paving with brick or concrete, $877,768.

Tuscarawas Co., Sect. "F" Canton-Canal Rd., 1.47 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $42,028.

Vinton Co., Sect. "F" McArthur-Jackson Rd., .31 mi., grading and paving with bituminous macadam, $5233.

Sect. "G-3" McArthur-Athens Rd., building bridge, cost $1970.

Sect. "D" McArthur-Gallapolis Rd., 3.62 mi., grading, constructing bridges and culverts, $25,398.

Warren Co., Sect. "D" Cincinnati-Columbus Rd., 4.05 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $64,930.

Wood Co., Sect. "A" Fremont-Perrysburg Rd., 3.48 mi., grading, constructnig bridges and culverts and paving with bituminous macadam, $78,050.

Sect. "B" Fremont-Perrysburg Rd., 3.85 mi., grading, constructing bridges and culverts and paving with bituminous macadam, $67,100.

**O., Cardington**—Until Sept. 3, by village, grading, curbing and paving 2nd, Park and Waters Sts. T. E. Buck, Mt. Gilead, engr.; advertised in this issue.

**O., Cleveland** — City receiving bids paving Henley Ave. from West 92nd to 99th Sts., involving 17,800 sq.ft. 5 in. brick paving and 1255 cu.yd. excav.; Emily Ave. from West 82nd to 88th Sts., 11,046 sq.ft. 5 in. brick paving on 6 in. concrete base. R. Hoffman, city engr.

**O., Coldwater**—Until Sept. 4, by A. P. Link, city clk., paving Main, 2nd, South, College, 6th, Walnut and Mill Sts., involving 25,818 cu.yd. grading, 2669 lin.ft. 8-36 in. pipe sewer, 16,916 lin.ft. drain tile, 15,505 lin.ft. straight and 978 lin.ft. circular curbing, 408 lin.ft. straight and 25 lin.ft. circular concrete curbing and guttering, 46,778 sq.yd. pavement, etc. G. Champe, Toledo, engr.

**Indiana**—Bd. Co. Comrs. building roads in following counties:

Sept. 9, St. Joseph Co., South Bend, 34,765 ft. gravel road, Liberty Twp., known as W. F. Newcomer et al. Rd. A. F. Wolf, co. aud.

Sept. 10, Tipton Co., Tipton, 13,266 ft. course concrete road, Liberty Twp., known as Scott Skinner Rd. C. Grishaw, co. aud.

**Ill., Monticello**—Until Aug. 30, by Piatt Co., building 2600 ft. of 10 ft. brick pavement on Sect. F-15d, Route 8. Cement to be furnished by county. T. J. Anderson, co. supt. highways.

**Minn., Bemidji**—Until Sept. 2, by Comrs. Beltrami Co., clearing, grubbing, grading, ditching and building culverts on 4½ mi. State Rd. No. 11, Job No. 1903; County Rd. No. 123, Job No. 1907; County Rd. Nos. 16 and 24, Job No. 1914; County Rd. No. 15, Job No. 1904; County Rd. No. 113, Job No. 1905. About $25,000. S. D. Snyder, Bemidji, engr.

**Minn., Thief River Falls**—Until Sept. 5, by T. P. Anderson aud. Pennington Co., improving 5 mi. Federal Aid Project No. 67, State Rd. No. 1 and State Aid Job No. 1907, involving 4.5 acres clearing, 39,460 cu.yd. grading, 5345 cu.yd. surfacing and 3947 cu.yd. ditching, etc. Separate bids will be received on grading, surfacing and incidental work. About $45,000. H. G. Martz, St. Hilaire, engr.

**Kan., Kansas City**—Until Sept. 2, by city, for 40,000 sq.yd. brick, asphaltic concrete and concrete pavement. About $125,000. W. Barclay, city engr.

Streets and Roads (Continued)

**Kan., Lyons**—Until Sept. 22, by Rice Co., building 10.5 mi. brick road, west of here. 18 ft. wide. S. Ainsworth, Lyons, engr. Noted July 3.

**Mo., Clayton**—Until Sept. 15, by W. Elbring, co. engr., St. Louis Co., building 52.36 mi. St. Charles, Manchester and Gravois Rds., brick and concrete bases with warrenite surface, and LeMay Ferry Rd., brick or concrete base with bitulithic surface. About $1,171,320. Noted June 12.

**Arkansas**—Until Sept. 2, by State Highway Dept., Little Rock, grading, paving, building culverts and bridges, on 25 mi. road, 16 ft. wide, in Monellton Rd. Dist. About $500,000. Harrington, Howard & Ash, Orear-Leslie Bldg., Kansas City, Mo., engrs.

**Okla., Madill**—Until Sept. 20, by city, paving 56 blocks, 36 ft. wide, involving 60,000 sq.yd. rein.-con. pavement. About $375,000. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

**New Mexico**—Until Sept. 16, by State Highway Comn., Santa Fe, building 5.432 mi. State Rd. No. 15, Sect. 3, Lea Co. known as Federal Aid Project No. 16. L. A. Gillett, c/o State Highway Dept., engr.

**Wash., Ritzville**—Until Sept. 2, by Comrs. Adams Co., grading, draining and surfacing 13 mi. Donohue Rd. No. 3, crushed rock and gravel, also 8.5 mi. Donahue Rd. No. 4, crushed gravel. F. R. Hewett, Ritzville, engr. Noted May 22.

**California**—Until Sept. 2, by State Highway Comn., 515 Forum Bldg., Sacramento, paving 7.4 mi. road between Beatrice and Eureka (1-Hum-1-G), Humboldt Co., involving 35,800 cu.yd. excav., 7420 cu.yd. Class "A" Portland cement, 2000 lin.ft. 12-36 in. corrugated metal pipe, 1800 lin.-ft. guard rail and 154 each hauling and setting monuments; 12.8 mi. road between Oakdale and easterly boundary (111-Sta-13-B), Stanislaus Co., 45,000 cu.yd. excav., 12,725 cu.yd. Class "A" Portland cement, 812 lin. ft. 12-24 in. corrugated metal pipe and 204 each hauling and setting monuments; 9.4 mi. road between Galivan and Irvine (V-11-Ora-2-B), Orange Co., 4780 cu.yd. Class "A" Portland cement and 32,434 sq.yd. asphalt surface. A. B. Fletcher, highway engr.

**Cal., Bakersfield**—Until Sept. 8, by V. Van Riper, city clk., paving 10 blks. 21st, 22d, 23d and 24th Sts., et al, 1½ in. bitulithic on 3 in. asphaltic concrete base, concrete curbs, gutters, etc. About $50,000. R. H. Hubbard, city engr.

**Que., Como East** (Como P. O.)—Until Sept. 8, by W. Sanderson, Como East Ave., paving 10 mi. Provincial Highway, water bound macadam, 20-27 ft. wide, for Dept. of Roads. About $30,000.

**Que., Vercheres**—Until Sept. 8, by A. M. Cormier, Boloeil, paving 6 mi. waterbound macadam road 18-20 ft. wide, in Vercheres Co. for Dept. Rds., Quebec. About $20,000.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Taunton**—City let contract laying granite block pavements for 1 year to Simpson Bros., Corp., Devonshire St., Boston. About $30,000.

★**Rhode Island** — State Highway Comn., Providence, let contract building 5 mi. Post Rd. from Westerly to Charlestown, to A. D. Bridges Sons Inc., Hazardville, Conn., $101,417. Noted July 17.

★**Connecticut**—State Highway Comn., Hartford, let contract paving concrete road, Windsor Locks Twps., to Lane Constr. Co., 37 Colony St., Meriden. About $35,000.

★**N. Y., Albany**—Bd. Contr. & Supply let contract paving Rensselaer Ave., concrete, and Lawn St., brick, to P. W. Mulderry, 5 St. Josephs Terrace, $30,955.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract regulating and grading Rogers Ave. from Eastern Parkway to Empire Blvd., to M. J. O'Hara, 557 3rd St., $50,085; Rogers Ave. from Empire Blvd. to Flatbush Ave., to Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., $159,-535. Noted Aug. 21.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., received bids Aug. 15, regulating, grading, curbing, laying sidewalks and paving, (a) Anthon Ave., (b) Boulevard, (c) Broad St., (d) Buckley St., (e) 4th St., (f) Freedom Ave., (g) Gunther Ave., (h) Hancock St., (i) Hunterspoint Ave., (j) Moor St., (k) Nurge St., (l) Olmstead Pl., (m) Poland St., (n) Woodside Ave., (o) St. Felix Ave., (p) 16th St., (q) Van Cortland Ave., from

Sicilian Asphalt Paving Co., 41 Park Row, New York City, (a) $6509, (e) $22,-628, (f) $46,076, (i) $29,742, (k) $3762. (l) $7205, (m) 14,443, (q) $9060;

Borough Asphalt Paving Co., 1301 Metropolitan Ave., Brooklyn, (a) $6623, (i) $28,685, (q) informal;

Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $6930, (e) $24,238, (f) $45,-225, (i) $32,821, (k) $4218, (l) $7535, (m) $14,580, (q) $9173;

Hastings Paving Co., 25 Broad St., New York City, (b) $29,260;

C. A. Myers, foot of Stagg St., (b) $30,-225, (c) $13,235, (h) $1817, (o) $4820;

Peace Bros., 20 Main St., Flushing, (c) $11,735, (d) $10,850, (h) $1953, (j) $20,100. (n) $136,259, (o) $4921;

T. Welsh, (c) $13,782;

W. Welsh, Astoria, (d) $5280, (j) $8875;

A. A. Johnson, (d) $7125, (j) $13,101;

R. A. Hess, Corona, (g) $22,539;

E. W. Fitzpatrick, 128 3rd Ave., Astoria, (g) $22,554;

F. J. Clancy, Corona, (g) $23,622, (n) $127,248;

C. Gallagher, Woodhaven, (h) $1735, (o) $4479;

Cleveland Trinidad Paving Co., Flushing Ave., Brooklyn, (j) $31,291, (m) $13,885;

Annarock Eng. & Constr. Co., Long Island City, (n) $126,560;

Ho'ding Realty Corp., Long Island City, (p) $26,114;

J. J. Kreager, (p) $41,400. Noted Aug. 7.

★**N. Y., Seneca Falls**—City let contract paving Clinton, Chapel, Mynderse, Bridge and Green Sts., to M. C. Soper, 82 Cayuga St. About $47,757.

★**N. J., Jersey City**—City let contract grading and paving Hutton and Stegman Sts., asphalt, to W. T. S. Crichfield, Washington St., Hoboken. Cost to exceed $25,-000. Noted June 26 and July 31.

★**Pennsylvania** — State Highway Dept., Harrisburg, let contract to E. J. Corcoran, Plains building 22,435 ft. 1 course rein.-con. road, Route No. 161, Schuylkill Co., $324,-591; to Bowler & Anderson, Clearfield, building 17,977 ft. 1 course concrete road, Route No. 59, Clearfield Co., $195,585. Noted Aug. 14.

**Pennsylvania** — State Highway Dept., Harrisburg, received bids building roads in counties as follows:

Allegheny Co., 21,299 ft. rein.-con., Moon and Crescent Twps., from M. O'Herron Co., South 1st and McKean Sts., Pittsburgh, $225,204, J. B. Reed Co., 550 Bway., McKees Rocks, $257,814, J. H. De Carpentier & Sons, 521 Falls Ave., Youngstown, O., $258,845;

Bucks Co., 812 ft. vitr. brick, Falls Twp., from F. G. Meyers Co. Inc., 1218 Chestnut St., Phila., $13,872, C. T. Eastburn, 803 Broad St. Bank Bldg., Trenton, N. J., $16,981;

Cambria Co., 13,232 ft. rein.-con. and vitr. brick, Cresson and Gallitzin Twp., from P. C. Azzara, Cresson, $144,782, Coles-Englehart Co., Ebensburg, $167,340;

Chester Co., 29,586 ft. bituminous macadam (Pennsylvania method) on Telford foundation, Westtown, East Goshen and East Whiteland Twps., from R. H. Johnson Co., Wayne, $190,578, W. P. McDonald Constr. Co., 1010 Penn Sq. Bldg., Phila., $199,290, Winston & Co., 240 Fair St., Philadelphia, $200,444.

Delaware Co., 7314 ft. bituminous macadam (Pennsylvania method) on Telford foundation, Upper Darby Twp., from W. P. Johnson, 4039 Lancaster Ave., Phila., $44,399, V. Di Franceson, Llanerch, $44,-389, Field Barker & Underwood, Commercial Trust Bldg., Philadelphia, $44,799;

Fayette Co., 4101 ft. vitr. brick, North and South Union Twps., from E. W. Cornish & W. Miller, 620 and 622 Fayette Title & Trust Bldg., Uniontown, $51,475, G. S. White Co., Jenkins Arcade, Pittsburgh, $64,663, R. D. Thomas & Co., 6 Boundary St., Pittsburgh, $68,566;

Northampton Co., 8226 ft. rein.-con., Nazareth and Palmer Twps., from H. B. Tranger, National Park, N. J., $67,616, R. S. Rothbun Contr. Co., 409 Vine St., Bethlehem, $67,769, McInerney & McNeal, Inc., 702 Northampton Natl. Bank Bldg., Easton, $71,191;

Washington Co., 22,287 ft. rein.-con., Cecil Twp., from Crossan Constr. Co., 710 Land Title Bldg., Phila., $206,366, S. Gamble Co., Carnegie, $217,265, G. S. White Co., Jenkins Arcade, Pittsburgh, $235,103;

Westmoreland Co., 57,775 ft. rein.-con. and Hillside vitr. brick, Penn and Salem Twps., from R. H. Cunningham & Sons Co., 600 Penn Ave., Turtle Creek, $683,794, McCrady Bros. Co., 308 6th St., Braddock, $715,586, T. H. Gill Co., 2nd Mutual Bldg., Binghamton, N. Y., $776,645; 31,227 ft. rein.-con. and Hillside vitr. brick, Hempfield and Sewickley Twps., from J. I. Dick, Scotdale, $305,502, G. S. White Co., Jenkins Arcade, Pittsburgh, $350,206, McCrady Bros. Co., 308 6th St., Braddock, $363,018;

Wyoming and Lackawanna Counties, 71,063 ft. bituminous surface course on concrete foundation or rein.-con., Clarks Summit, Glenburn Boros. and Abington Twp., Lackawanna Co., Clinton and Nickolson Twps., Wyoming Co., from Ruthven Rees & O'Brien, 212 Carter Bldg., Scranton, (Class A) $468,327, A. McMullen Co., 1309-10 Finance Bldg., Philadelphia, $486,033. Gaylord International Eng. & Constr. Co., Cedar Ave. and Orchard St., Scranton, (Class A) $501,308;

Lehigh Co., 16,218 ft. rein.-con., Salisbury Twp. from J. McGraw Co., 1010 Commercial Trust Bldg., Philadelphia, $106,897, R. A. Rathbun Contr. Co., 409 Vine St., Bethlehem, $111,101, G. Merdinger, Wilbut Trust Bldg., South Bethlehem, $111,323;

Luzerne Co., 31,418 ft. bituminous surface course on concrete foundation or rein-con., West Paxton and Exeter Boroughs and Exeter Twp., from Richardson Hand, Wilkes-Barre, $228,547, H. B. Sproul Constr. Co., 218 Adams Ave., Scranton, (Class A) $237,886, Trinidad Asphalt Paving Co., Larksville (Wilkes-Barre P. O.), $272,086.

Lycoming Co., 15,683 ft. bituminous surface course on concrete foundation or rein.-con., Wolf Twp. and Picture Rock Boro., from Winston & Co., 240 Fair St., Kingston, N. Y., $155,377, Warren Bros. Co., 142 Berkeley St., Boston, (Class D) $186,778;

Mercer Co., 2431 ft. rein.-con., Mercer Boro., from Burns Bros., 525 South Mill St., New Castle, $26,794, Faber Eng. & Constr. Co., 824 Bessemer Bldg., Pittsburgh, $29,307, G. C. Cleaver Co., East Mahoning St., Punxsutawney, $33,114. Noted July 31.

★**Pa., Juniata**—Boro. Council let contract paving 4200 ft. 3rd St., 11th Ave. and Bway. to Boro. line, 30, 36 and 42 ft. wide, concrete, to Gregory Paving Co., Lewistown. About $68,000. Noted July 31.

★**Pa., Phila.**—City let contract grading and paving Delaware Ave., to J. J. McHugh, 1430 South Penn Sq., $108,127. Work involves 1000 cu.yd. grading, $0.69 per cu.yd., 12,058 yd. granite block paving on concrete base, $6.29, 5980 yd. granite block on gravel bed, $5.23, 10 sq.yd. vitr. block on concrete base, $5, 10 cq.yd. granolithic sidewalks, $3, 10 sq.yd. granite block repaving on concrete base, $5, 15 sq.yd. granite block repaving on gravel bed, $1, etc. Total cost, $108,127.

**Pa., Phila.**—Dept. Pub. Wks. received low bids Aug. 18, grading (a) Cheltenham, Michner and Williams Sts., (b) Osceola St., (c) Jackson St., (d) Dorcas St., (e) Oxford St.; paving with asphalt and vitr. gutters, (f) Hutchinson St., (g) Warrington Ave., (h) Windsor St., (i) Wingohocking St., (j) 6th St., (k) 7th St., (l) 16th St., (m) 26th St.; paving with bituminous pavement and vitr. block gutters, (n) Benezet St., repaving (o) Emerald St., (p) Norris St., (q) Ridge St., (r) Susquehanna St.; repaving (s) Kensington Ave., (t) Germantown Ave., (u) Columbia Ave.; resurfacing with bituminous macadam, (v) 8th St.; furnishing and placing 6 in. straight granite curb, (w) Fairmount Ave.; repairing and painting bridges on (x) Belmont and Girard Sts., (y) Germantown Ave. over Wissahickon Creek, (z) 6th and Allegheny Sts., (a1) 57th St. over West Chester and Pennsylvania R.R., from

I. K. Davis, 20th and Spencer Sts., (a) $28,670.

O'Neill Co., 127 East Mermaid Ave., (a) $38,182; (b) $1354.

T. Connor, 332 North 5th St., (a) $28,637.

Estate of D. McMahon, Post Office Bldg., Germantown, (b) $354.

R. P. Wenner, Franklin Trust Bldg., (c) $1177; (d) $3001; (e) $2187.

J. J. Harnett, Deveraux and Jackson Sts., (c) $1600.

Estate of R. P. Bennis, Chew and Price Sts., (d) $2535; (v) $10,295.

T. P. Lee, 5629 Cherry St., (e) $1843.

Eastern Paving Co., 401 Colonial Trust Bldg., (f) $5691; (g) $7839; (h) $3520; (i) $3930; (j) $4760; (k) $5759; (l) $4320; (m) $4035; (o) $12,272; (p) $39,499; (q) $38,036; (r) $24,970; (w) $6249.

Barber Asphalt Paving Co., 239 North 30th St., (f) $6491; (g) $7847; (h) $3461; (i) $4057; (j) $4819; (k) $5894; (l) $4657; (m) $3906; (n) $8483; (o) $11,499; (p) $38,135; (r) $23,433.

Union Paving Co., 30th and Locust Sts., (n) $8012; (o) $11,578; (p) $36,450; (q) $37,015; (r) $22,477.

Phila. Paving Co., 1345 Arch St., (g) $8844; (h) $3860; (q) $56,821.

Streets and Roads (Continued)

Mack Paving & Contg. Co., Nicetown Lane and C Sts., (n) $7880.

J. Meehan & Son, 915 West Dauphin St., (s) $78,018; (t) $36,647; (u) $51,589; (w) $4028.

Cunn & Murray, 1345 Arch St., (s) $78,-135; (t) $35,645.

M. J. McCrudden, 805 Franklin Trust Bldg., (s) $81,536; (t) $35,770; (v) $9285.

Monahan & Loose, 3016 Chestnut St., (y) $28,600.

Mundy Paving & Contg. Co., 228 Alden St., (y) $31,341.

M. & J. B. McHugh, 892 North Markoe St., (w) $6249; (y) $30,776; (z) $32,645; (a1) $3490.

Belmont Iron Works, 22nd and Washington Sts., (z) $34,421; (a1) $2770.

W. Klingberg & Son, 50 Church St., New York City, (x) $2269.

Ryan Contg. Co., 33rd St. and Grays Ferry Ave., (u) $53,095.

E. C. Fish Co., 704 Real Estate Trust Bldg., (u) $53,932. Noted Aug. 14.

★**Pa., Phila.**—Dept. Pub. Wks. let contract improving (a) 8th St. from Chelton to 66th St., (b) Roosevelt St. and North East Blvd., (c) Island Ave. from Eastwick to Tinicum Island, (d) Green St. from Horter to Carpenter Sts., (e) Green St. from Wynnefield to Overbrook Sts., paving (f) Osage Ave., (g) Pentridge St., (h) Plum St. from Ditman to Torresdale St., (i) Erringer Pl. from Manheim to Clapier St., (j) Westford Rd. from Geneva to Marwood Sts., furnishing and placing curb on (k) Fairmount Ave., painting and repairing bridges on (l) Germantown Ave. over Wissahickon Creek, repairs to bridges on (m) 20th St. and Penn Ave., 19th St. and Penn Ave. west of 18th St., to M. J. McCrudden Co., Franklin Trust Bldg., (a) $9285; C. P. Bower, Tulip and Somerset Sts., (b) $187,665; Union Paving Co., 30th and Locust Sts., (c) $27,258; J. J. McHugh, 1430 South Penn Sq., (d) $4321; Mack Paving & Contg. Co., Nicetown Lane and C St., (e) $7611; (i) $6698; Barber Asphalt Paving Co., 239 North 30th St., (f) $4276; (g) $3059; (h) $4191; (j) $4743; J. Meehan & Son, 915 West Dauphin St., (k) $4028; Monaghan & Loose, 3016 Chestnut St., (l) $28,600; W. Klingberg & Son, Inc., 50 Church St., New York City, (m) $1810. Noted Aug. 21.

**Pa., Pittsburgh** — City received bids grading, paving and curbing (a) Exeter St., from Frank St. to Greenfield Ave., involving 1346 sq.yd. vitr. brick and 1217 sq.yd. stone block on 6 in. concrete base, 2100 lin.ft. concrete curbing and 5532 cu.yd. earth excav., (b) Jean St. from Fairdale St. to Sutherland Ave., 673 sq.yd. vitr. brick on 6 in. concrete base, 500 lin.ft. concrete curbing, 1036 cu.yd. earth excav., (c) Stadium St. from Radcliffe to Stafford Sts., 695 sq.yd. vitr. brick on 6 in. concrete base, 260 lin.ft. concrete curbing, 1500 cu.yd. earth excav., 220 cu.yd. concrete wall, (d) Sebring Ave. from Fallowfield Ave. to point 90 ft. westwardly, 365 sq.yd. stone block on 6 in. concrete base, 200 lin.ft. concrete curbing, 584 cu.yd. earth excav., 465 sq.yd. concrete sidewalk, (e) Stafford St. from Stadium St. to point 234 ft. southwardly, 550 sq.yd. old stone block on 6 in. concrete base, 130 lin.ft. concrete curbing, 206 lin.-ft. recut and reset sandstone curbing, 855 cu.yd. earth excav., (f) Veronica St. from Sundeman St. to Straubs plan of lots, 1410 sq.yd. vitr. brick on 6 in. concrete base, 1115 lin.ft. concrete curbing, 2135 cu.yd. earth excav., (g) Fallowfield from Sebring St. to Bayonne Ave., 1175 sq.yd. stone on 6 in. concrete base, 956 lin.ft. concrete curbing, 2405 cu.yd. earth excav., (h) Cowan St. from Dillworth St. to Southern Ave., 1460 sq.yd. stone block on 6 in. concrete base, 894 lin.ft. concrete curbing, 1824 cu.yd. earth excav., (i) Singer St. from Tokio to McKee Sts., 3600 sq.yd. stone block on 6 in. concrete base, 3068 lin.ft. concrete curbing, 3206 cu.yd. earth excav., 6480 cu.yd. earth embankment, from M. Ott & Co., 416 Warrington Ave., (a) $19,717; M. O'Herron Co., South 1st and McKean Sts., (a) $20,204, (c) $9283, (e) $3248, (f) $9221, (h) $10,900, (i) $29,074; Booth & Flynn, 1942 Forbes St., (a) $21,946, (g) $11,584, (h) $10,968, (i) $31,217; J. B. Reed Co., 550 Bway., (b) $5509, (c) $8721, (e) $3936; J. J. Neelan, Pittsburgh, (b) $4908, (f) $10,269; McDonnough & O'Toole, Pittsburgh, (b) $4912, (c) $9057, (d) $2876, (e) $3371; Pittsburgh Paving Co., Bakewell Bldg., (d) $2400, (f) $9719; F. Donatelli, Pittsburgh, (d) 2459, (g) $11,020. Noted Aug. 14.

★**Pa., Pittsburgh** — Comrs. Allegheny Co. let contract paving Ardmore Blvd., involving 36,600 sq.yd. asphaltic concrete, to Booth & Flynn, 1942 Forbes St., $235,-975. Noted Aug. 14.

★**Pa., Sunbury**—Comrs. Northumberland Co. let contract improving 2.24 mi. Columbiana-Leetonia Rd., to Morgan Bros., Leetonia, $46,127; 1.14 mi. Columbiana and New Waterford Rds., to Hepburn Bros., Lisbon, $24,729.

★**Virginia**—State Highway Comn., Richmond, let contracts to J. R. Ford & Co., Lynchburg, building 2 mi. road from Bocock to Rustburg, 16 ft. wide, penetration macadam, Campbell Co., cost $46,056, 4½ mi. road from Lynchburg to Judiths Creek, 16 ft. wide, waterbound macadam, Bedford Co., $100,500; McKinney & Harvey, Farmville, 0.72 mi. concrete road from Roanoke to Raleigh Court, Roanoke Co., $24,-904; C. Carson, Riverton, 1.56 mi. concrete road from Front Royal to Riverton, Warren Co., $23,000; L. J. Chandler, Virginlina, 1.59 mi. concrete road from Cape Charles to Bayside Rd., Northampton Co., $49,000. Noted June 19.

★**W. Va., Charleston**—Comrs. Kanawha Co. let contract to G. T. Fogle & Co., St. Albans, improving 3 mi. Sissionville Rd., 13 feet between edging. Work includes laying bituminous concrete surface on concrete base (which has already been constructed); refined oil asphalt to be used. Noted July 24.

★**W. Va., Parsons**—Comrs. Tucker Co. will build 9 mi. Davis-Dist. Preston County Rd., 20 ft. wide, involving 38,800 cu.yd. excav. and 17,700 sq.yd. cement concrete surfacing. About $75,000. Work will be done by day labor. Noted Aug. 21.

★**W. Va., Ripley**—Comrs. Jackson Co. let contract building 5 mi. Ripley-Parkersburg-Turnpike, 20 ft. wide, to Cisler & Morse, Marietta, O., $14,330. Noted July 31.

★**W. Va., Ripley**—Comrs. Jackson Co. let contracts paving 1.1 mi. streets, 20 ft. wide, in Ravenswood Twp., involving 18,000 sq.yd. concrete, to C. Kennedy & Son, Parkersburg, $42,663; 1 mi. streets in Ripley Twp., involving 4000 sq.yd. concrete, to Cisler & Morse, Marietta, Ohio, $11,760. Noted July 24.

★**W. Va., Summerville**—Comrs. Nicholas Co. will grade and drain 2 mi. Belva-Summersville Rd., 20 ft. wide. About $29,000. Work will be done by day labor. Noted Aug. 21.

★**W. Va., Wellsburg**—Comrs. Brooke Co. will grade, drain, and surface with concrete and macadam 1 mi. Wellsburg Wheeling Rd., 16 ft. wide. About $30,000. Work will be done by day labor. Noted May 22.

★**Ga., Augusta**—City let contracts paving 6000 sq.yd. 12th St. and Savannah Rd., 6 in. concrete, to A. J. Twiggs & Son, Herald Bldg., $2.24 per sq.yd.; 10,000 sq.yd. 9th St. from Fenwick to Twiggs Sts., asphaltic concrete on macadam base, and 20,000 sq.yd. Broad St. from 5th to east boundary, sheet asphalt on concrete base, to Ely Constr. Co., Lamar Bldg., $1.70 and $2.45 per sq.yd. respectively. Noted Aug. 21.

★**Ky., Louisville**—City let contracts to Bickel Asphalt Co., 6th and Lee Sts., Louisville, paving 330 mi. Kreeger Ave. from Elliston to Charles Aves., 30 ft. wide, involving 150 sq.yd. vitr. brick gutter, 910 sq.yd. asphalt, 1060 sq.yd. 6 in. concrete base, 620 lin.ft. stone curbing, 650 cu.yd. earth excav., cost $5383, Rastiller Ave. from Frankfort to Payne Aves., 170 sq.yd. vitr. brick guters, 1100 sq.yd. asphalt, 1270 sq.yd. 6 in. concrete base, 690 lin.ft. stone curbing, 1000 cu.yd. earth excav., $6444, 610 mi. Prospect Ave. from Pope to Stole Aves., 30 ft. wide, 300 sq.yd. vitr. brick gutters, 1730 sq.yd. asphalt, 2030 sq.yd. 6 in. concrete base, 955 lin. ft. stone curbing, 420 cu.yd. earth excav., $9206; to Louisville Asphalt Co., Floyd and Lee Sts., Louisville, 600 mi. Quadiant Ave. from Eastern Parkway to Stevens Ave. 30 ft. wide, 265 sq.yd. vitr. brick, 1740 sq.yd. asphalt, 2005 sq.yd. 6 in. concrete base, 1120 lin.ft. stone curbing, 3300 cu.yd. earth excav., $12,256, 750 mi. Ormby Ave. from 21st to 23rd Sts., 20 ft. wide, 300 sq.yd. vitr. brick gutters. 1375 sq.yd. asphalt, 1675 sq.yd. 6 in. concrete base, 1366 lin.ft. stone curbing, 800 cu.yd. excav., $8651.

**O., Cleveland**—City received bids paving (a) Fidelity Ave. from West 101st St. to West Blvd., involving 14,500 sq.ft. brick paving on 6 in. concrete base, (b) Loretta Ave., from West Blvd. to West 101st St., 28,750 sq.ft. 4 in. brick on 6 in. concrete base, (c) Franklin Ave. from West 66th St. to Franklin Circle, 22,100 sq.yd. asphalt, (d) Kinsman Rd. from East 93rd to East 140th Sts., 118,600 sq.ft. 5 in. brick on 6 in. concrete base, (e) Kinsman Rd. from East 140th St. to city limits, 106,000 sq.ft. 5 in. brick on 6 in. concrete base, (f) Superior Ave. from East 39th to 47th Sts., 11,340 sq.ft. 4 in. wood block on 8 in. concrete base, (g) East 4th St. from Euclid to Prospect Aves., 10,752 sq.ft. 4 in. wood block on 8 in. concrete base, (h) Superior Ave. from East 47th to 55th Sts., 11,250 sq.ft. 4 in. brick on 8 in. concrete base, (i) Westfield Ave. from London Rd. to Wayside Ave., 16,670 sq.ft. 4 in. brick on 6 in. concrete base, (j) West 44th St. from Hyde to Starsdale Aves., 24,400 sq.ft. brick, from Freshwater Paving Co., 11,512 Detroit Ave., (a) $10,171; (b) $19,505, (j) $12,701; Baldwin Bros., 4500 Euclid Ave., (a) $10,497, (b) $19,803, (d) $7,255, (e) $77,395, (g) $12,880, (j) $12,868; Amer. Paving Co., Marshall Bldg., (c) $40,955; Kelly & Myers, Society for Society Bldg., (e) $41,268; McHugh Bros., 724 Guardian Bldg., (c) $41,274; A. M. Pejsa, 2350 East 93rd St., (d) $75,249, (e) $75,155, (f) $96,964, (h) $96,513; Burnett Hathaway Co., Society for Savings Bldg., (d) $92,202, (e) $88,391, (g) $12,614; Bentley Bros., 1838 Euclid Ave., (f) $110,886, (g) $13,112, (h) $108,526; Rieley Bros., 357 The Arcade, (f) $110,943, (h) $107,049, (i) $10,906; G. B. Herring, Society for Savings Bldg., (i) $10,548; Gould & Maybach, 823 East 150th St., (i) $10,784; Roehl Bros., West 25th St. and Clark Ave., (j) $12,045.

**O., Columbus**—G. A. Borden, dir. pub. serv., received bids grading, draining, curbing, laying water mains and repaving with (a) sheet asphalt with brick gutters, (b) asphalt with old stone gutters, (c) brick 10,096 ft. 5th Ave. from Perry St. to alley west of Parker St., from Cleveland Trinidad Paving Co., The Arcade, Cleveland, (a) $113,479, (b) $115,579; A. G. Pugh, Columbus, (a) $126,257; Andrews Paving Co., Rentschler Bldg., Hamilton, (b) $123,621; Franklin Asphalt Paving Co., Columbus, (c) $118,499; B. F. Patterson, Columbus, (c) $126,759. This contract is held up by injunction suit of property owners. Noted Aug. 14.

★**O., Columbus**—G. A. Borden, dir. pub. serv., let contract grading, draining, curbing, laying water mains and paving 448 ft. Findlay Ave. from Olentangy St. to north terminus, brick, to R. J. Dienst, 2515 West Broad St., $7610; 1112 ft. Dennison Ave. from 5th to King Aves., asphalt, Cleveland Trindad Paving Co., The Arcade, Cleveland, $12,578. Noted Aug. 14.

★**O., Oxford**—Village Council let contract paving and curbing ½ mi. High St., 32 ft. wide, involving 10,000 sq.yd. vitr. brick, to J. Hennessey, Piqua, $35,500. Noted July 31.

★**O., Toledo**—D. H. Goodwillie, dir. pub. serv., let contract paving 7670 ft. Fairmont Park and Ottawa Additions, 24 ft. wide, involving 17,980 sq.yd. 2½ in. bituminous concrete on 6 in. concrete base, 14,990 lin. ft. concrete curbing and guttering and 3161 cu.yd. earth excav., to Harris & Tansey, 504 Nasby Bldg., Toledo, $89,047. Noted July 31.

★**Michigan**—F. F. Rogers, state highway comr., Lansing, let contract grading, draining and surfacing 3.78 mi. State Trunk Line Rd. No. 12-1, Mackinaw Co. involving 35,483 sq.yd. gravel and 13,045 cu.yd. earth excav., to E. Brown, Charles, $41,000; 3.155 mi. State Trunk Line Rd. No. 50-1, Lenawee Co., involving 6941 cu.yd. concrete and 4954 cu.yd. earth excav., to Hillding & Robe, Rega, $91,216; also shaping and surfacing 5.972 mi. Federal Aid Project No. 7, Alcona Co., involving 8771 cu.yd. gravel, to W. T. Hill, Prescott, $47,000. Noted Aug. 14.

★**Michigan**—State Highway Dept., Lansing, let contract to Cline & Boelus, Spring Lake, grading, draining and surfacing 1.236 mi. State Trunk Line Rd. 11-3, 16 ft. wide, concrete, $25,054; H. A. Hozic, 1426 4th St., Grand Rapids, 5.878 mi. Sect. A, State Trunk Line Rd. 12-1A, 16 ft. wide, concrete, $142,747; H. A. and M. C. Nichols, Hastings, Sect. B-C, State Trunk Line Rd. No. 23-3, $102,381. Noted Aug. 7 and 14.

**Mich., Detroit**—City received bids paving with sheet asphalt or asphaltic concrete on 6 in. concrete base, Berea curbstone, (a) Fenkell Ave., (b) Colfax Ave., (c) Clements Ave., (d) Florida Ave., (e) Fullerton Ave., (f) Northfield Ave., (g) Otsego Ave., (h) Olivet Ave., (i) Pingree Ave., (j) Schroeder Ave., (k) Sylvan St., (l) Wilson Ave., from W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $94,746, (b) $21,298, (c) $16,762, (d) $56,857, (e) $36,804, (f) $41,492, (g) $13,605, (h) $4313, (i) $37,265, (j) $18,041, (k) $5840, (l) $5380; Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $92,655, (b) $21,794, (c) $16,437, (d) $57,617, (e) $36,032, (f) $42,422, (g) $14,044, (h) $4258, (i) $38,557, (j) $17,666, (k) $5684, (l) $5586; Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $90,152, (b) $20,820, (c) $16,490, (d) $54,808, (e) $36,633, (f) $40,596, (g) $13,839, (h) $4082, (i) $37,444, (j) $16,982, (k) $5577, (l) $5488. Noted Aug. 14.

Streets and Roads (Continued)

★**Mich., Redford**—B. E. Taylor, 501 Ford Bldg., Detroit, let contract furnishing labor and materials laying 250,000 sq.yd. 1 course concrete pavng in subdivisions near Grand River Ave., here, to Otis Cement Constr. Co., Hammond Bldg., Detroit. About $65,000.

★**Illinois**—Dept. Pub. Wks. & Bldgs., Div. Highways, Springfield, let contracts to R. F. Conway Co., 133 West Washington St., Chicago, improving Sect. O, LaSalle-Grundy Co., Sect. H and G, La Salle Co., Sect. Q and P-29a, Grundy Co., $675,000; Sect. A, Cook-Lake Co. and Sect. B, Lake Co., $269,724; Sects. C, D, K-15d, Lake Co., $289,267; to Warner Constr. Co., 189 West Madison St., Chicago, Sect. N-15d and B, La Salle Co., $149,088; to A. Fahrig, Edwardsville, Sect. Y, Madison Co., $128,524; to H. H. Hall Constr. Co., East St. Louis, Sects. U and Q, Madison Co., $186,466, Sects. 32 and P-15d, $180,534; to McElwee & Rogy, 425 Moss Ave., Peoria, Sect. F, Peoria Co., $16,881; to Hill & Barth, Amboy, Sect. C, Lee Co., $10,072; to Cameron & Joyce, Keokuk, Ia., Sect. K, Tazewell Co., $23,724. Noted Aug. 7 and 21.

★**Illinois**—Dept. Pub. Wks. & Bldgs., Div. of Highways, Springfield let contracts building Sects. I and W, Springfield-East St. Louis Highway, Madison Twp., to Cameron, Joyce, Smith & Elder, Keokuk, Ia., $242,032; Sect. V, Springfield-East St. Louis Highway, Fayette Twp., to H. W. Horst Constr. Co., Horst Bldg., Rock Island, $128,416; Sect. 1, Route 16, Springfield-East St. Louis Highway, Litchfield Twp., to White & Braley Co., Litchfield, $10,000; Sect. H, Route 6, Nokomis-Witt Highway, Nokomis Twp., to Arva & Wakefield Co., Litchfield, $10,000. Noted July 17.

★**Illinois**—Dept. Pub. Wks. & Bldgs., Springfield, let contract improving roads in following counties: Lake Co., 5100 ft. Sect. J, Route 6, 18 ft. wide, involving 10,200 sq.yd. concrete and 4080 cu.yd. excav., etc., to W. A. Black, Waukegan, $21,600; Montgomery Co., 22,340 ft. Sect. H, Routes 4 and 6, 24 ft. wide, 59,573 sq.yd. earth and 8815 cu.yd. excav., to Awe & Warfield, Lincoln, $8177; 24,897 ft. Sect. I, Route 16, 24 ft. wide, 66,392 sq.yd. earth and 13,540 cu.yd. excav., to White & Braley, Litchfield, $9803; Alexander Co., 16,470 ft. Sect. D, Route 1, 15 ft. wide, 27,450 sq.yd. gravel and 8896 cu.yd. excav., to W. T. Bland, Cairo, $37,561.

★**Illinois**—Dept. Pub. Wks. & Bldgs., Springfield, let contract improving 38,795 ft., Sect. E, Route 5, 15 ft. wide, Macon Co., involving 64,658 sq.yd. oiled earth, 23,067 cu.yd. excav., etc., to Stewart & Fluss, Oriana, $26,472; 12 and 16 ft. span bridge, Sect. G, Route 4, Richland Co., to L. V. Chesrown, Olney, $5058. Noted Aug. 21.

★**Ill., Chicago**—Bd. Local Impvts. let contracts paving Archer Ave., to Ready & Callaghan Coal Co., 133 West Washington St., $67,021; South Bishop St., to J. A. Sackley Co., 179 West Washington St., $8210; Brompton Ave., to White Paving Co., 17 North La Salle St., $9676; Carmen and North Fairfield Aves., to R. F. Conway Co., 133 West Washington St., $7605 and $74,497 respectively; North Menard Ave., to Amer. Asphalt Paving Co., 133 West Washington St., $19,704; Wabansia Ave., to Standard Paving Co., 29 South La Salle St., $45,064; East 103rd Pl., East 104th St., East 104th Pl., East 105th St., East 105th Pl., East 106th and East 107th Sts., Stephenson, Langley, Corliss and Erickson Aves., to J. A. McGarry Co., 189 West Madison Ave., $169,056. Noted July 17.

★**Ill., Chicago** — Bd. Local Impvts. let contracts to Central Paving Co., 179 West Washington St., paving alley between Sunnyside, Galt, Clarendon and Hazel Aves., $4066, alley between Menomonee and Eugenie Sts., Cleveland Ave. and Mohawk St., $3424, alley between Sunnyside, Galt, Hazel Aves. and Sheridan Rd., $3566; to R. R. Anderson & Co., 1841 West Lake St., alley between Granville and Hood Aves. and Bway. and Lakewood Ave., $3946; to Contg. & Material Co., 10 South La Salle St., alley beween East 63rd and East 64th Sts. and Ingleside and Drexel Aves., $3231; to P. J. O'Brien Co., 29 South La Salle St., alley between Huron, Erie and Leavitt Sts. and Oakley Blvd., $5937; alley between Washington Blvd., Madison, Ada and Sheldon Sts., $8737; to Amer. Asphalt Paving Co., 133 West Washington St., Clyde Ave. from East 73rd to East 75th Sts., $15,137, Clyde Ave. from East 92nd to East 93rd St., $7735, East 72nd St. from South Shore Drive to East 71st St., East 71st St. from South Shore Drive to point 122 ft. east, $10,754, South Hoyne Ave. from West 107th to West 111th Sts., 108th Pl. from Hoyne Ave. to point 165 ft. east, West 110th St. from Longwood Dr. to Hoyne Ave., $49,913. Noted Aug. 14.

**Ill., Chicago**—Bd. Local Impvts., received bids Aug. 13, paving (a) alley between Eastwood, Wilson and Clarendon Aves. and Hazel St., involving 498 cu.yd. excav., 1010 sq.yd. 7 in. concrete paving, 20 ft. 8 in. sewer tile, 1 brick catchbasin,

(b) alley between Marianna St., Wrightwood Ave., Best St. and Sheffield Ave., 315 cu.yd. excav., 1250 sq.yd. 2 in. concrete pavement on 5 in. crushed slag,

(c) alley between Berteau and Belle Plaine Ave., Paulina and Hermitage Sts., 527 cu.yd. excav., 1250 sq.yd. 7 in. concrete, 518 ft. 10 in. sewer tile, etc.,

(d) alley between East 64th and East 65th Sts., Evans Ave. and Langley St., 250 cu.yd. excav., 1070 sq.yd. 7 in. concrete,

(e) alley between West 63rd and West 64th Sts., Throop and Ada Sts., 415 cu.yd. excav., 1460 sq.yd. 7 in. concrete, 170 ft. 10 in. tile sewer, etc.,

(f) alley between East 32nd and East 33rd Sts., Prairie and Forest Aves., 250 cu.yd. excav., 910 sq.yd. 7 in. concrete,

(g) alley between West 32nd and West 33rd Sts., Shields and Princeton Aves., 1201 ft. concrete curbing, 200 cu.yd. excav., 925 sq.yd. vitr. brick on 6 in. concrete,

(h) alley between East 56th and East 57th Sts., Drexel Blvd. and Maryland Ave., 130 cu.yd. excav., 1070 sq.yd. 7 in. concrete,

(i) alley between East 59th and East 60th Sts., Wabash and Michigan Ave., 220 cu.yd. excav., 1122 sq.yd. 7 in. concrete, excav., 565 sq.yd. vitr. brick on 6 in. concrete,

(j) alley between East 40th and East 41st Sts., Drexel Blvd. and Cottage Grove Ave., 882 ft. concrete curbing, 214 cu.yd. excav., 565 sq.yd. vitr. brick on 6 in. concrete,

(k) alley between East 42nd Pl., East 42nd St., St. Lawrence and Vincennes Aves., 1460 ft. concrete curbing, 540 cu.yd. excav., 1165 sq.yd. vitr. brick on 6 in. concrete,

(l) alley between East 63rd and East 64th Sts., Langley and Evans Sts., 362 cu.yd. excav., 1260 sq.yd. 7 in. concrete,

(m) alley between West 86th Pl., West 87th St., Vincennes Ave. and Sangamon St., 225 cu.yd. excav., 1140 sq.yd. 7 in. concrete,

(n) alley between Taylor St., Roosevelt Rd., Lincoln St. and Winchester St., 511 cu.yd. excav., 1402 sq.yd. 7 in. concrete, 260 ft. 10 in. tile sewer, etc.,

(o) alley between Wilson and Sunnyside Aves., Albany and Troy Sts., 543 cu.yd. excav., 1155 sq.yd. 7 in. concrete,

(p) Augusta St. from Kildare St. to Cicero Ave., 5300 ft. concrete curbing, 5300 cu.yd. excav., 10,040 sq.yd. asphalt pavement on 6 in. concrete, 160 ft. 10 in. tile sewer, etc.,

(q) Barry Ave. from Robey St. to Hoyne Ave., 650 ft. concrete curbing, 700 cu.yd. excav., 1020 sq.yd. asphalt pavement on 6 in. concrete,

(r) Cambridge St. from Diversy to Surf Sts., 970 ft. concrete curbing, 600 cu.yd. excav., 1500 sq.yd. asphalt pavement on 6 in. concrete, etc.,

(s) Homer St. from Albany to Kedzie Aves., 870 ft. concrete curbing, 480 cu.yd. excav., 1300 sq.yd. asphalt on 6 in. concrete, etc.,

(t) Potomac Ave. from Homer to Central Park Aves., St. Louis Ave. from Evergreen St. to Potomac Ave., 2940 ft. concrete curbing, 4500 cu.yd. excav., 4700 sq.yd. asphalt on 6 in. concrete, 110 ft. 10 in. tile sewer, etc.,

(u) Argyle St. from Spaulding Ave. to the Sanitary Canal, 3040 ft. concrete curbing, 2300 cu.yd. excav., 4120 sq.yd. asphalt on 6 in. concrete, etc.,

(v) Wrightwood Ave. from Lake View Ave. to North Clark St., Dole Ave. from Lehman Court to North Clark St., Pine Grove Ave. from Wrightwood Ave. to Surf St., Hampton Court from Deming to Diversy Sts., Lehman Court from Wrightwood Ave. to Diversy St., 9750 ft. concrete curbing, 6000 cu.yd. excav., 15,000 sq.yd., asphalt on 6 in. concrete, etc., from

J. A. Ross & Co., 4561 Armitage Ave., (a) $3265, (c) $5468, (o) $3618;

R. R. Anderson Co., 1841 West Lake St., (a) $3346, (b) $3825, (e) $4838, (f) $2649, (h) $2732, (i) $4005, (n) $5379, (o) $3677;

Central Paving Co., 179 West Washington St., (a) $3445, (b) $4625, (c) $5548, (d) $2948, (e) $4859, (g) $5559, (h) $2900, (i) $4282, (j) $3695, (k) $7034, (l) $3708, (m) $3176, (n) $5369;

J. Dillon & Co., 179 West Washington St., (b) $4740, (d) $2973, (g) $5588, (j) $3601, (k) $6917, (l) $3733, (m) $3153;

P. J. O'Brien & Co., 29 South La Salle St., (c) $5588, (d) $3018, (e) $4915, (f) $2956, (n) $5355, (o) $3677;

Contg. & Material Co., 3219 South Michigan Ave., (f) $2900, (g) $5508, (h) $2886, (i) $4254, (j) $3640, (k) $7049, (l) $3793, (m) $3299;

Amer. Asphalt Paving Co., 133 West Washington St., (p) $43,371, (q) $4985, (r) $6235, (t) $22,583, (u) $18,610, (v) $65,166;

Standard Paving Co., 29 South La Salle St., (p) $43,694, (s) $5689, (t) $22,338;

R. F. Conway Co., 133 West Washington St., (p) $43,826, (q) $4989, (r) $6022, (s) $5764, (t) $23,168, (u) $18,248, (v) $64,312.

White Paving Co., 17 North La Salle St., (q) $4890, (r) $6009, (s) $5644, (u) $18,411, (v) $64,162. Noted Aug. 7.

★**Wisconsin**—State Highway Comm., 208 Stephenson Bldg., Milwaukee, let contract improving Milwaukee-Waukesha Rd., Waukesha Co., Federal Aid Project No. 63, to Blodgett & Clayton Constr. Co., 204 Grand Ave., Milwaukee, involving 1441 cu.yd. earth excav., $1.25 per cu.yd., 9542 sq.yd. concrete surfacing, $1.95, and 22,300 lb. steel reinforcing, $.08, total, $22,193. Noted July 17.

★**Wisconsin**—State Highway Comm., 208 Stephenson Bldg., Milwaukee, let contracts improving Whitefish Bay-Brown Deer Rd., Milwaukee Co., Federal Aid Project No. 103, to Froming Bros., Milwaukee, involving 6311 cu.yd. earth excav., $.96 per sq.yd., 48 cu.yd. concrete in culverts, $22, and 17,682 sq.yd. concrete surfacing, $2.14, total cost, $44,973; North Fond du Lac Rd., Federal Aid Project No. 102, Waukesha Co., from F. Hildebrand, Jr., 1315 Forest Home, Milwaukee, 5973 cu.yd. earth excav., $.95 per cu.yd., 105 cu.yd. concrete in culverts, $20 and 24,354 sq.yd. concrete surfacing, $2.20, etc., $62,091. Noted Aug. 7.

★**Minn., Bemidji**—Beltrami Co. let contract grading and graveling 16 mi. Federal Aid Project No. 76, 24 ft. wide, to Lett Bros., Bemidji, $63,816. Noted June 26.

★**Minn., Elk River**—Sherburne Co. let contract paving 11 mi. Federal Aid Projects Nos. 44 and 60, 16 ft. wide, to W. S. Harris, 1442 Pillsbury Ave., Minneapolis, and Widell & Co., Mankato, $186,000 and $230,000 respectively. Noted April 17.

★**Minn., Grand Rapids**—City let contract concrete paving 3½ blocks, to M. Hanson, Coleraine, $14,827. Noted July 17.

★**Minn., Ivanhoe**—Lincoln Co. let contract grading and graveling 3 mi. State Rd. No. 5, Job 1902, 24 ft. wide, to L. C. Tryhon, Porter. Work will be done on day labor basis. Noted July 24.

★**Minn., Ortonville**—A. V. Randell, and Big Stone Co., let contract grading and graveling 10 mi. Federal Aid Project No. 66, State Rd. No. 3, 24 ft. wide, to Larkin Constr. Co., Ortonville. About $61,000. Noted June 24.

★**Minn., St. Paul**—H. W. Austin, city purch. agt., let contract paving Grove St. between Mississippi and Lafayette Sts., to Fielding & Shipley, 216 University Ave., $31,355. Noted Aug. 7.

★**Minn., Slayton**—City let contract paving 20,000 to 25,000 sq.yd. streets, 18 ft. wide, to Hanlon & Okes, Library Exch., Minneapolis, $3.50 per sq.yd.

★**Minn., Warren**—Comrs. Marshall Co. let contract building Federal Aid Project No. 81, State Rd. No. 1, 24 ft. wide, to M. W. Barnard, Globe Bldg., St. Paul, $107,794. Noted Aug. 7.

★**Kan., Iola**—Allen Co. rejected bids hard surfacing 4½ mi. Federal aid road, 18 ft. wide. Work will be done by day labor. Noted Aug. 7.

★**North Dakota**—State Highway Comrs., Bismarck, let contract building 22 mi. concrete road east and west through Napoleon, Federal Aid Project No. 35, to F. M. Hass, Minot, and C. H. Dunlay, Sanger. About $67,000.

★**N. D., Fargo**—City let contract paving 3rd St. between 1st and 2nd Aves., involving 7000 sq.yd. bituminous concrete, to W. E. Kennedy, Fargo. About $28,000.

★**N. D., Fargo**—Comrs. Cass Co. let contract building 26 mi. Alice Turnpike Highway Rd., earth, to T. Twichell, Mapleton, $14,148.

★**Montana** — State Highway Comm., Helena, let contract gravel surfacing 3 mi. Billings-Cody Way, to A. Carlson, Columbus, $27,589. Noted July 24.

★**Montana**—State Highway Dept., Helena, let contract gravel surfacing 18 mi. Sun River Rd., Cascade Co., to White, Brown & Leahy, Great Falls, $85,488. Noted Aug. 14.

★**Arkansas**—State Highway Dept., Little Rock, let contract building Washington Co. Road Dist. No. 1, to J. T. Code & E. M. Wheelock, Springfield, Mo., involving 24,790

Streets and Roads (Continued)

cu.yd. excav., 23,958 cu.yd. gravel base course or broken stone, 11,812 cu.yd. gravel road surface, 240 cu.yd. class A concrete, 176 cu.yd. class B concrete, 241 cu.yds. cement rubble masonry. About $105,315.

**Tex., Bryan**—Brazos Co. received bids building gravel surfaced and plain concrete road and rein.-con. drainage structures on 10.33 mi. Highway No. 2, Rd. Dist. No. 2, known as Millican-Navasota Rd., 15 ft. wide, from Sline, Stanley & Byers, Waco, $106,687; Boyett & Sherman, Houston, $110,126; Cook & Arrington, Crockett, $115,251. Noted Aug. 21.

★**Tex., Canton**—Van Zandt Co. let contract building gravel surfaced road and rein.-con. drainage structures on 9.889 mi. Highway No. 15, Federal Aid Project No. 84, 15 ft. wide, to D. Laroe, Chandler, $126,213. Noted Aug. 21.

★**Tex., Clarksville**—Red River Co. let contract building 2.18 mi. State Highway No. 37 or Jim Hog Highway, Federal Aid Project No. 95, 14 ft. wide, involving 7700 ft. gravel surfacing and 3800 ft. concrete surfacing, to J. A. Goodman, Clarksville, $14,125. Noted July 17.

★**Tex., Dallas**—City Comn. let contract paving Forest Ave. from Meadow to 2nd Aves., and Fletcher St. from Terry to Parry Aves., to Texas Bitulithic Co., 1101-6 Praetorian Bldg., $26,018 and $11,707 respectively; Good St. from Elm to Bryan Sts., to Standard Eng. & Constr. Co., Interurban Bldg., $28,097.

★**Tex., Ranger**—City let contract for 116,000 sq.yd. pavement, to Genl. Constr. Co., F. & M. Bank Bldg., Ft. Worth, $574,920.

**Tex., Roby**—Fisher Co. received bids for (a) placing, spreading, hauling, gravel surfacing and building drainage structures on 9 mi. Highway No. 4, known as Rotan-Aspermont Rd., 15 ft. wide, involving 20 acres clearing and grubbing, 70,000 cu.yd. unclassified earth excav., 42,400 lb. reinforcing steel, etc., (b) gravel surfacing and building rein.-con. drainage structures on 6 mi. Highway No. 4 from North Roby to Rotan, State Aid Project No. 83, 2700 lin.ft. machine work, 40,750 cu.yd. unclassified earth excav., from J. F. Hamer, Ft. Worth, (a) $71,768, (b) $35,798; Sanders Bros., Miami, (a) $76,487, (b) $39,732.

★**Okla., Broken Arrow**—City let contract paving 3 blocks Main St., brick, to J. H. Hamilton, Tulsa. About $100,000.

★**Idaho, Bonners Ferry**—City let contract paving Main St. and graveling Kootenai and Bonner Sts., to T. Broad, Bonners Ferry, $31,500.

**Arizona**—State Highway Dept., Phoenix, received bids building Tempa-Mesa Highway, Federal Aid Project No. 8, (a) Sect. 1, (b) Sect. 2, from McElrath & Shumway, Mesa, (a) $41,255, (b) $162,757; G. R. Curtis, 2440 East 26th St., Los Angeles, (a) $11,104, (b) $165,815; McPeak & Dillon, (a) $39,794, (b) $173,025; Southwestern Contg. Co., 13th and Lincoln Aves., Phoenix, (a) alternate bids, $41,534, $45,397 and $42,420, (b) $165,949, $183,731 and $172,756.

★**Wash., Centralia**—City Comrs. let contract paving D and 4th Sts., Tower Ave., etc., to Allred, James & Hendricks & Albers & Son, Centralia, $33,354. Noted Aug. 7.

**Wash., Seattle**—Bd. Pub. Wks. received bids Aug. 16, paving 36th Ave. South, involving 2020 sq.yd. concrete, 1546 lin.ft. concrete curbing and guttering and 600 cu.yd. earth excav., from J. L. Smith, Seattle, $11,434; C. L. Creelman, 106 10th St., $11,967; Fiorito Bros., Seattle, $13,428.

★**Wash., Toppenish**—City let contracts to Standard Asphalt Paving Co., Monroe and Bridge Sts., Spokane, paving with gravel bitulithic and building curbs on 6370 sq.yd. Washington St. and Parker Way, cost $22,020; also 100 lin.ft. 8 in. concrete pipe sewer, 17 manholes, 10 lampholes, etc., $8825. Noted Aug. 21.

★**Wash., Vancouver**—Bd. Comrs. Clarke Co. let contract paving 4.6 mi. Sect. 2, Battle-ground Vancouver Rd., asphaltic concrete, to United Contg. Co., Northwestern Bank Bldg., Portland, $103,985.

**Oregon**—State Highway Comn., Portland, received bids Aug. 14, paving 6 mi. Forest Grove Rd., Yamhill Co., from Warren Constr. Co., Journal Bldg., Portland, 600 cu.yd. clay or other earth filler, $1.50 per cu.yd., 15,500 cu.yd. screened gravel macadam, $6.17 per cu.yd., 100 cu.yd. gravel, $5.37 per cu.yd., 1500 lin.ft. 6 in. porous drain tile, $0.45 per ft., total cost, $97,747; Washington Co. Court, Hillsboro, 600 cu.yd. clay or other earth filler, $0.75 per cu.yd., 15,500 cu.yd. crushed rock, broken stone or run of bank gravel, $2.75 per cu.yd., 100 cu.yd. broken stone, $2.75 per cu.yd., 1500 lin.ft. 6 in. drain tile, $0.12 per ft., $43,530.

★**Ore., Portland**—City let contracts to S. Simonsen, 841 East 10th St., N., paving 5th Ave. from Nevada St. to Taylor's Ferry, $14,244, East 33rd St. from Tremont to Shaver Sts., $20,939, both with concrete; to Warren Constr. Co., Journal Bldg., Leo Ave. from East 15th to Milwaukee Sts., $9843, East 6th St., $28,053, East 72nd St. from East Glisan St. to Thorburn Ave., $14,346, Tibbetts St., $11,708, all with bitulithic type E, East 69th St. from Siskiyou St. to Sandy Blvd., concrete, $2951; to Cochran Bros., Portland, Emerson St. from Denver to Delaware Sts., $9620, East Market St. from East 30th to East 29th Sts., $2751, Webster St. from Denver to Gay Sts., $4256, all concrete No. 1, also grading, paving and building concrete curbs on Jarrett St., $13,639. Noted Aug. 21.

★**Cal., Colusa**—City let contract paving 4th, 6th, 7th and Jay Sts., bitulithic, waterbound macadam shoulders and concrete curbing, to Clark & Henery Constr. Co., Hearst Bldg., San Francisco. About $25,000.

**Cal., Los Angeles**—Bd. Supervs. Los Angeles Co. received bids paving 14.19 mi. Sierra Madre Rd. between Lancaster and Redman Twp., oil macadam with disintegrated granite base from White & Gaskill, Long Beach, $218,000; Rogers Bros. Co., 350 Merrick St., Los Angeles, $222,000; G. S. Benson & Sons, Stimson Bldg., Los Angeles, $234 500.

★**Cal., Martinez** — Bd. Supervs. Contra Costa Co. let contract surfacing 3.7 mi. road from Pittsburgh to Antioch, asphalt, to A. H. Kopperud, Byron, $33,988. Noted Aug. 21.

★**Cal., Oakland**—City Council let contract improving 34th Ave. and Davis St., involving 2962 sq.yd. oil macadam, 1990 lin.ft. redwood curbing and 6014 sq.ft. concrete guttering, to Oakland Paving Co., 5000 Bway., $10,205.

★**Cal., San Jose**—Bd. Supervs. Santa Clara Co. let contract paving King Rd., oil macadam to C. J. Lindgren, Monadnock Bldg., San Francisco, $13,875.

★**Cal., San Jose**—Bd. Supervs. Santa Clara Co. rejected bids surfacing Tully, Center and Storey Rds., et al. Work will be done by day labor under supervision of I. L. Ryder, co. surv. About $10,068.

★**Cal., South San Francisco**—City Trustees let contract grading and paving Swift Ave., asphalt, to Raish Impvt. Co., 46 Kearney Bldg., San Francisco, $24,300.

★**Que., Lennoxville**—Dept. Rds., Quebec, let contract building 5½ mi. Provincial Highway, here, 20 to 22 ft. wide, to P. J. Wolf, Notre Dame St., Sherbrooke, $18,119.

★**Que., Three Rivers**—Dept. Pub. Wks., Ottawa, Ont., let contract building new concrete sidewalks in connection with new public building here, to A. Heon & Co., Three Rivers. About $13,800.

★**Ont., Caledonia**—Town let contract building 8000 ft. bituminous macadam road, 20 ft. wide, to McCrea, Campaign & Cook, Niagara Falls. About $40,000.

★**Ont., Casselman**—Dept. Highways, Toronto, let contract building 4 mi. Ottawa Rd., 22 ft. wide, bituminous macadam, to J. Grenon, St. Peter Ave. About $14,000.

★**B. C., North Vancouver**—City let contract surfacing 23,200 sq.yd. Marine Drive, 2 in. asphaltic concrete, to Columbia Bitulithic Co., 402 Pender St. W., Vancouver, $1.85 per sq.yd., total cost, $42,000. Noted Aug. 7.

## Railways

### PROPOSED WORK

**Ohio**—O. E. Carr, city mgr., Springfield, soon receives bids relaying 1500 ft. double track on Limestone St. from North to Main Sts. and from Washington to Rice Sts., for Springfield Ry. Co., 44 South Limestone St. About $95,945. G. C. Chadderdon, ch. engr.

**Missouri**—United Rys. Co., 39th and Park Aves., St. Louis, soon receives bids building and repairing 21 mi. electric railway tracks. About $750,000.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**California**—Sutter Basin Co., California Fruit Bldg., Sacramento, let contract building 18 mi. railroad from Knights Landing north through Reclamation Dist. No. 1500, known as Sutter Basin Project, to Shattuck-Edinger Co., 525 Market St., San Francisco. About $225,000.

## Excavation and Dredging

### PROPOSED WORK

**Minn., Granite Falls**—Ditch—G. C. Wilson, aud. Yellow Medicine Co., soon lets contract digging and building Ditch No. 11, involving 7500 6 in., 1500 ft. 7 in., 2160 ft. 18 in., 4464 ft. 10 in., 2960 ft. 14 in. and 2160 ft. 18 in. tile. About $10,000. N. D. Thayer, Granite Falls, engr.

**Minn., Hastings**—Excavation—State Bd. Control, St. Paul, receives bids in fall building 600 lin.ft. tunnel at State Asylum for Insane, here. About $90,000. C. L. Pillsbury Co., Metropolitan Life Bldg., Minneapolis, engrs.

**Mont., Bridger**—Canal—Sand Creek Ditch Co., plans to build 7 mi. canal. H. A. Veeder, secy. Cost to exceed $10,000. Engineer not selected.

**Mont., Clinton**—Irrigation—Clinton Irrigation Dist. plans to build ditches, canals and flumes for reclaiming about 3000 acres. About $30,000. R. W. Angevine, 222 West Spruce St., Missoula, interested.

**Mont., Joliet** — Canal — Joliet-White Horse Bench Irrigation Dist., Carbon Co., plans to build diversion dam and canals to reclaim 6000 acres. About $180,000. F. G. Kimball, Billings, engr.

**Mont., Shelby** — Irrigation — Toole Co., Irrigation Dist. plans to build 40 mi. canal to reclaim 285,850 acres. Cost will probably exceed $3,000,000. Gerharz-Jacqueth Eng. Co., 514 1st Natl. Bank Bldg., Great Falls, engrs.

**Ore., Baker—Irrigation**—Pocahontas Mining & Irrigation Co. plans to irrigate 14,085 acres in Baker Co. Plans include building canals, laterals and flumes to carry water from Mill and Marble Creeks. About $250,000. P. Cupper, Salem, state engr.

**Ore., Grandview — Irrigation —** Suttles Lake Irrigation Co. plans to build canals and laterals for irrigation project in Jefferson Co., water to be taken from Suttles Lake. About $395,000. C. I. Henline, pres.

**Cal., Turlock**—Irrigation—Turlock Irrigation Dist. plans to improve irrigation system. Plans include lining 6 mi. canal with 675,000 sq.ft. concrete, cost $95,000; digging 15 mi. drainage ditches, $104,000; clearing main laterals and building new gates, falls, etc., $26,000; enlarging portion of main canal, $15,000.

### BIDS DESIRED

**Miss., Carrollton** — Excavation — Bd. Comrs. Potacocowa Creek D. D., Avalon, received no bids building channel, levees, etc., in Carroll and Grenada Counties. Work is still open to contractors and bids will be accepted for same. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs. Noted Aug. 7.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**N. Y., Ft. Edward—Excavation—**E. S. Walsh, state supt. pub. wks., Capitol, Albany, received bids completing excavation of canal between here and Crocker's Reef, Barge Canal Contr. No. 194, from W. F. Martens, 245 Cutler Bldg., Rochester, $15,230; Dunbar & Sullivan Dredging Co., Waterford, $29,980. Noted July 17 under "Albany."

★**Miss., Gulfport**—Drainage—Bd. Comrs. Long Beach D. D., Harrison Co., let contract for 12.9 mi. drainage ditch to Winston Dredge Co., Louisville, $0.12½ per cu.yd.

★**Que., Three Rivers** — Channel—Dept. Pub. Wks., Ottawa, Ont., let contract dredging channel and basin in eastern outlet of St. Maurice River, to Simpson Bros. Co., Ltd., 232 St. James St., Montreal. About $30,480. Noted July 17.

★**B. C., New Westminster**—Dredging—Dept. Pub. Wks., Ottawa, Ont., let contract dredging north arm of Fraser River, here, to Pacific Constr. Co., Ltd., 510 Hastings St., W., Vancouver. About $152,000. Noted July 17.

## Industrial Works

### PROPOSED WORK

**Mass., Chicopee**—Torrington Co., Springfield St., soon lets contract building 4 story, 50 x 100 ft. brick and mill construction addition to factory, concrete foundation. About $50,000. Private plans. Noted June 5.

**Mass., Florence** (Northampton P. O.)—Florence Mfg. Co., Pine St., soon lets contract building 4 story, 75 x 127 ft. brick and mill construction addition to plant, concrete foundation. About $70,000. Private plans.

**Mass., Worcester**—A. I. Asher, 16 Harding St., having plans prepared by E. T. Chapin, archt., 340 Main St., for 2 story, 152 x 163 ft. brick garage, concrete foundation, on Green St. About $150,000.

Industrial Works (Continued)

**Mass., Worcester**—Coppus Eng. & Equipment Co., Park Ave., plans to build 1 story foundry. About $80,000. Architect not selected.

**R. I., Central Falls** (Pawtucket P. O.)—Gbndana Silk Mills soon lets contract building 2 story, 78 x 128 ft., brick and mill construction mill, concrete foundation, on Washington St. About $70,000. D. Seabury, 12 East Ave., Pawtucket, engr.

**R. I., East Greenwich**—Greenwich Mills receives bids about Sept. 20, building 4 story, 35 x 100 ft., brick and mill construction addition to mill, concrete foundation. About $35,000. T. C. Herrmann, 17 Exchange St., Providence, archt.

**R. I., Providence**—D. M. Watkins Co., 95 Pine St., receives bids about Sept. 29, building 5 story, 95 x 120 ft., brick and mill construction factory, concrete foundation. About $125,000. W. R. Walker & Son, 17 Custom House St., archts. Noted Aug. 21.

**R. I., Woonsocket**—McClintock & Craig, engrs., 33 Lyman St., Springfield, Mass., soon let contract building 1 and 2 story, 90 x 135 ft., brick and mill construction addition to plant, concrete foundation, for Gold Mark Knitting Co., 83 Railroad St. About $50,000. Noted July 10.

**Conn., Bantam**—Bantam Ball Bearing Co, having plans prepared by Fletcher-Thompson, Inc., engrs., 1089 Broad St., Bridgeport, for 2 story, 50 x 300 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation. About $65,000.

**Conn., East Norwalk** (South Norwalk P. O.)—Crofut & Knapp, Water and Tolles Sts., South Norwalk, plans to build brick and concrete factory, on Van Zandt Ave. About $125,000. Engineer not selected.

**Conn., Groton**—M. Pollack & Co., Willimantic, soon receives bids building 3 story, 60 x 170 ft., brick and mill construction factory, 1st floor concrete, concrete foundation, here. About $90,000. J. A. Stevens, Lowell, Mass., archt. Noted June 12.

**Conn., Hartford**—G. Zunner, archt., 756 Main St., soon receives bids building 3 story, 35 x 46 ft. brick warehouse and store, concrete foundation, on Windsor and Orchard Sts., for D. Freedman, 121 Windsor St.

**Conn., Shelton**—Peterson & Hendee, Caroline St., Derby, having plans prepared for 2 story brick and concrete warehouse, on Howe Ave. About $25,000. Private plans.

**Conn., Waterbury**—City rejected plans prepared by C. Gilbert, archt., 244 Madison Ave., New York City, and are having new plans prepared by F. A. Webster, archt., 51 West Main St., for 1 story brick and concrete garage, rein.-con. flooring, concrete foundation, on Field St. Bids will be received in about 2 weeks. (Local contractors only.) About $30,000. Noted July 3.

**Conn., Winnipark** (Norwalk P. O.)—Norwalk Tire & Rubber Co., had plans prepared for 5 story, 85 x 160 ft., brick and rein.-con. addition to factory, rein.-con. flooring, concrete foundation. About $100,000. Private plans. W. P. Petrie, ch. engr. Noted June 19.

**N. Y., Buffalo**—Beaver Co., Beaver Rd., soon lets contract building 1 story, 144 x 522 ft., mill construction or rein.-con. plant, concrete foundation, on River Rd. About $150,000. Private plans.

**N. Y., Buffalo**—Niagara Machine & Tool Co., 683 Northland Ave., having plans prepared by H. E. Plumer, engr., Ellicott Sq., for 1 story, 90 x 108 ft. addition to assembly and machine shop, brick and steel, concrete foundation. About $75,000.

**N. Y., Jamestown**—Monarch Furniture Co., East 2nd St., having plans prepared by R. A. Freeburg, archt., Jamestown, for 4 story, 40 x 100 ft., mill construction, factory, concrete foundation. About $25,000.

**N. Y., New York**—Amer. Bosch Magneto Corp., 223 West 46th St., plans to build 12 story, 75 x 100 ft., brick, steel and stone factory and salesroom, rein.-con. flooring, brick foundation, on 60th St. and Bway. About $700,000. Architect and engineer not selected. Address J. A. MacMartin, of Am. Bosch Magneto Corp., Springfield, Mass.

**N. Y., New York**—R. G. Cory, archt. and engr., 39 Cortlandt St., receives bids about Sept 10, building 6 story, 75 x 150 ft., brick and rein.-con factory, rein.-con. flooring, concrete foundation, for C. Cory Co., 290 Hudson St. About $200,000. Noted Aug. 21.

**N. Y., Port Chester**—Mint Products Co., Inc., 299 Madison Ave., New York City, had plans prepared by Lockwood, Greene & Co., archts, and engrs., 101 Park Ave., New York City, for rein.-con. factory, rein.-con. flooring, concrete foundation, here. About $400,000.

**Pa., Phila.**—N. H. Dickinson, archt., 1705 Chestnut St., receives bids in 10 days, building 2 story, 50 x 327 ft., rein.-con. and brick factory on Kensington Ave., for Rockland Hosiery Co., Kensington Ave. and North St.

**Pa., Pittsburgh**—Oakland Express & Transfer Co., 229 Atwood St., soon lets contract building 2 story, 35 x 68 ft., storage plant, brick, rein.-con. flooring, concrete foundation. C. B. Siedler, Lloyd Bldg., archt.

**Md., Baltimore**—H. F. Doelman, engr., 507 North Charles St., soon lets contract building 4 story, 35 x 145 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, on Cross St. and Key Highway, for W. B. Cassell & Co., 1027 South Howard St. About $60,000. Noted July 10.

**Md., Baltimore**—R. L. Harris, archt., 2027 Kennedy Ave., soon receives bids building 2 story, 60 x 90 ft. storage plant, brick and timber, brick foundation, for Crystal Ice Co., Chester St. and North Ave. About $70,000.

**Md., Baltimore**—G. R. Callis, Jr., archt., 55 Knickerbocker Bldg., soon lets contract building 5 story, 83 x 197 ft., rein.-con. and brick warehouse, concrete foundation, for Genl. Coffee & Tea Co., Light and Lee Sts. About $65,000. J. Posey, 925 Fidelity Bldg., consult. engr. Noted July 10.

**Md., Baltimore**—Horowitz Garage Co., 1001 East Baltimore St., soon receives bids building 2 story 60 x 140 ft., rein.-con. and brick garage, concrete foundation, at 109-11-13 North High St. About $50,000. G. R. Callis, Jr., 55 Knickerbocker Bldg., archt.

**Md., Baltimore**—Sherwood Bros., Bank and 8th Sts., plan to rebuild 1 and 2 story, 75 x 200 ft., rein.-con. warehouse and oil refining plant, concrete foundation. About $100,000.

**Md., Baltimore**—Simmons Co., 612-22 West Pratt St., acquired site on Key Highway near Fort Ave., and plans to build factory and warehouse. About $75,000.

**W. Va., Fairmont**—Dreher, Churchman, Paul & Ford, archts., 1424 Walnut St., Phila., soon lets contract building 1 story, 280 x 360 ft., brick and concrete factory, for West Virginia Metal Product Co., Fairmont. Noted June 5.

**W. Va., Riverville**—Monongalia Valley Traction Co., Fairmont, plans to double capacity of power plant here, and extend high tension lines to Meriden, Grafton and Riversville. About $1,000,000. G. M. Alexander, Fairmont, engr.

**N. C., Durham**—Durham Hosiery Mills plans to build cotton mill. About $2,000,000. Architect not selected.

**O., Cleveland**—Chandler Motor Car Co., East 131st St. and St. Clair Ave., having plans prepared by E. McGeorge, archt. and engr., 1900 Euclid Ave., for 3 story, 80 x 400 ft., rein.-con., steel and brick addition to machine shop. About $200,000. Noted July 31.

**O., Cleveland**—Cleveland Plain Dealer Co., East 6th St. and Superior Ave., plans to build 6 story, 40 x 198 ft., rein.-con., steel and brick addition to publishing plant. About $250,000. Architect not selected.

**O., Cleveland**—Colburn Machine Tool Co., 1041 Ivanhoe Rd., having plans prepared by G. S. Rider, archt. and engr., Century Bldg., for 1 story, 192 x 238 ft., rein.-con., steel and brick factory. About $100,000. Noted Aug. 7.

**O., Cleveland**—Fulton Fdry. Co., 1209 Marquette Rd., having plans prepared by Watson Eng. Co., archts. and engrs., 1101 Hippodrome Bldg., for 1 story, 100 x 111 ft., rein.-con., steel and brick addition to foundry, on East 75th St. and Morgan Rd. About $70,000. Noted Aug. 7.

**O., Cleveland**—Martin Barris Co., 2048 West 3rd St., plans to build 2 story, 36 x 165 ft., rein.-con., steel and brick power house and sawmill. About $100,000. Architect not selected.

**O., Cleveland**—Republic Stove Co., 1761 East 39th St., preparing plans for 3 story, 60 x 112 ft., rein.-con., steel and brick factory. About $50,000.

**O., Dayton**—C. F. Sheffler, 221 Northwestern Ave., plans to build 2 story, 70 x 150 ft., rein.-con. and brick, dry cleaning plant, concrete foundation, on South Main St. About $25,000. Architect not selected.

**O., Dayton**—R. Weisenborn, 710 West 3rd St., plans to build 2 story, 66 x 132 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation. About $30,000. G. Wiesenborn, West 3rd St., archt.

**O., Middletown**—Middletown Journal, 4th and Park Sts., plans to build 3 story, 50 x 165 ft., rein.-con. and brick printing plant, concrete foundation, on Main St. About $60,000. Werner & Adkins, 45 Mitchell Bldg., Cincinnati, archts.

**O., Springfield**—Knoop Baking Co., Piqua, plans to build 3 story, 60 x 180 ft., rein.-con. and brick baking plant, concrete foundation, on Jefferson St., here. About $75,000. Architect not selected.

**Mich., Detroit**—Detroit Soluble Oil Co., Beard St. and Michigan Central Ry., plan to build rein.-con., brick and steel plant on Dix Ave. and Michigan Central Ry. Architect not selected.

**Mich., Highland Park** (Detroit P. O.)—Smith, Hinchman & Grylls, archts., Washington Arcade, Detroit, receives bids about Sept. 7, building 1 and 2 story, 315 x 557 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Oakland and Massachusetts Aves., for Maxwell Motor Co., Oakland Ave. Noted Aug. 21.

**Mich., Lansing**—Hall Lumber Co., Michigan Ave. and Larch St., plans to build 2 story, 50 x 200 ft., rein.-con. and steel mill, rein.-con. flooring, concrete foundation on North Larch St. Architect not selected.

**Mich., Marysville**—Detroit Edison Co., D. Whitney Bldg., Detroit, plans to build electric generating station, to contain 30,000 kw. unit, on St. Clair River and Bunce Creek, here. Private plans.

**Ill., Chicago**—Gramm-Bernstein Motor Truck Co., East Wayne and Scott Sts., Lima, O., plans to construct 2 story, 70 x 190 ft., rein.-con. auto sales and service building, rein.-con. flooring, concrete foundation, at 2439 Wabash Ave., here. About $150,000. Architect not announced.

**Ill., Vandalia**—Lund-Maudlin Shoe Co., 1101 Washington Ave., St. Louis, soon receives bids building 5 story, 100 x 200 ft., concrete and steel factory, rein.-con. flooring, rock foundation. About $110,000. B. W. Williams, c/o owner, archt.

**Wis., Barton**—Stevens Mfg. Co. having plans prepared by J. E. Hennen, archt., 71 South Main St., Fond du Lac, building 2 story, 80 x 128 ft. brick, rein.-con. and steel factory rein.-con. flooring, brick foundation, on Main St. About $30,000.

**Wis., Clintonville**—Topp-Stewart Tractor Co. plans to build 3 story, 80 x 300 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation on Main St. About $60,000. Architect not selected.

**Wis., Fond du Lac**—Galloway-West Co., 24 West Division St., having plans prepared by M. Tullgren & Sons, archts., 1236 1st Natl. Bank Bldg., Milwaukee, for 2 story, 80 x 200 ft., rein.-con. and brick creamery and power house.

**Wis., Janesville**—Samson Tractor Co. having plans prepared by F. D. Chase, Inc., engrs., 645 North Michigan Ave., Chicago, building new heating plant, 1st unit to have 2000 hp. capacity.

**Minn., St. Paul**—St. Paul Welding Co., 173 West 3rd St., having plans prepared by M. A. Wright, archt., Pittsburgh Bldg., St. Paul, building 2 story, 36 x 75 ft. brick and concrete shop, at 173 West 3rd St. About $115,000.

**Kan., Emporia**—McCord & Kistler Mercantile Co., 201 Kansas Ave., Topeka, having plans prepared by C. D. Cuthbert, archt., 435 Kansas Ave., Topeka, building 2 story, 75 x 150 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, rock foundation. About $70,000.

**Kan., Topeka**—Whiteker Bros., 1st St. and Kansas Ave., having plans prepared building 4 story, 100 x 151 ft. concrete garage, rein.-con. flooring, concrete foundation J. C. Holland & Son, 719 Mills Bldg., archts. Hedrick & Hoff, Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 23.

**Mo., Kansas City**—R. A. Curtis plans to build 4 story, 100 x 120 ft., concrete garage, rein.-con. flooring, concrete foundation, on Admiral and Grand Sts. About $85,000. Hedrick & Huff, Interstate Bldg., engrs.

**Mo., Kansas City**—A. Whitman, 31st St. and Gilham Rd., planc to build 1 story, 140 x 200 ft., rein.-con. garage, rein.-con. flooring, concrete foundation. Hedrick & Huff, Interstate Bldg., engrs. W. Besecke, Interstate Bldg., archt.

**Mo., St. Louis**—Donk Bros. Coal Co., 314 North 4th St., soon receives bids building 3 story warehouse. About $50,000. Architect not selected.

**Mo., St. Louis**—Scullin Steel Co., 6700 Manchester Rd., soon receives bids building 2 story, brick, steel and rein.-con. addition to mill, concrete foundation, at 1835 Knox St. About $30,000. Architect not selected.

**Okla., Perry**—City voted $84,000 bonds to improve light plant.

**N. M., Albuquerque**—M. J. O'Fallon, 10th and Wynkoop Sts., Denver, having plans prepared by Frost & Frost archts., 817

Industrial Works (Continued)

**Mills Bldg., El Paso, Tex.**, building 1 story, 50 x 200 ft. concrete warehouse, 10,000 ft. floor space, on North 1st St. About $50,000.

**Idaho, Coeur d'Alene** — Home Builder Mine & Milling Co. plans to build nitrate plant near Coeur d'Alene Lake. First unit to cost $50,000. Ultimate cost $500,000.

**Wash., Blewett**—Pehastin Lumber Co. plans to rebuild lumber and box plant recently destroyed by fire. Plans include 2 or 3 story, concrete and frame building, capacity of 12,000 boxes daily. About $100,000.

**Wash., Montesano**—South Side Lumber Co. acquired site in southern part of city and plans to build 1 story, concrete and frame sawmill, 50,000 ft. daily capacity. About $55,000. G. Elfbrandt, pres. Private plans.

**Wash., Pullman**—Community Milling Co. plans to remodel Pullman Flour Mill and erect two 2 story, brick and frame units, concrete foundation, 100 bbl. capacity each. About $75,000. Private plans.

**Wash., Spokane**—Inner Circle Property Co. plans to build 4 story, rein.-con. garage, rock and concrete foundation, on 4th and Columbia Sts. About $55,000. J. W. Godwin, 1020 Summit Ave., pres. Private plans.

**Wash., Vancouver**—Clarke Co. Prune Growers have organized association and preparing plans for prune drier and packing plant, 2 story, frame, concrete foundation. About $50,000. L. F. Russell, Washougal, chn.

**Ore., Crabtree**—Long Bell Lumber Co., R. A. Long Bldg., Kansas City, Mo., plans to build 1 story sawmill, here. About $75,000. R. A. Long, pres.

**Ore., Junction City**—G. A. Wilhelm having plans prepared for 2 or 3 story, 100 x 125 ft. concrete garage, concrete foundation. About $50,000. Architect's name withheld.

**Ore., Portland**—C. L. Boss, 617 Washington St., having plans prepared by E. B. MacNaughton, archt., Concord Bldg., for 2 story, 60 x 200 ft. brick and tile distributing house, on 19th St. and Trinity Pl. About $65,000.

**Ore., Portland**—Central Waxed Paper Co., 5600 Fillmore St., Chicago, purchased site in North Portland, adjacent to Swift & Co., and plans to build 2 or 3 story, concrete and steel plant, 18,000 to 20,000 lb. daily capacity. About $100,000. A. Christ, Pres.

**Ore., Portland**—Doernbecher Mfg. Co., East 28th St., having plans prepared by Jacobberger & Smith, archts., Bd. Trade Bldg., for 2 story, 21 x 225 ft., concrete and timber addition to factory. About $25,000.

**Ore., Portland**—Meier & Frank, 5th and Morrison Sts., purchased block bounded by 13th, 14th, Everett and Flanders Sts., and are having plans prepared for 10 story rein.-con. and steel, wholesale house, 500,000 ft. floor space, and will build 2 story addition to department store on 5th and Morrison Sts., 50,000 ft. floor space. J. L. Meier, genl. mgr. Architect's name withheld.

**Cal., Modesto**—Pratt-Lowe Preserving Co., Bellomy and Campbell Sts., Santa Clara, plans to build addition to cannery, here, cost $30,000; also rein.-con. warehouse, on 9th and C Sts., $40,000.

**Cal., San Diego**—San Diego & Arizona Ry., Spreckels Bldg., soon lets contract building 60 x 200 ft., rein.-con. freight depot. D. W. Pontius, genl. mgr.

**Ont., Windsor**—Fisher Body Co., Edna St., Walkerville, having plans prepared for 4 story, rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on Arthur and McDougal Sts. About $700,000.

**B. C., Burnaby**—Gregory Tire & Rubber Co., 1404 Standard Bank Bldg., Vancouver, plans to build 1 story, 100 x 240 ft. mill construction factory, on Euclid Ave. and Collingswood St., here. About $50,000.

### BIDS DESIRED

**N. Y., Long Island City**—Until Aug. 31, by Ballinger & Perrott, archts. and engrs., 47 West 34th St., New York City, building 8 story, 126 x 200 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Degnon St., here, for Sawyer Biscuit Co., 404 East 32nd St., New York City. Noted June 12.

**N. Y., New York**—Until Sept. 15, by Buchman & Kahn, archts. and engrs., 56 West 45th St., building 6 story, 75 x 200 ft. brick and steel addition to factory, rein.-con. flooring, concrete foundation, on Ave. D between 13th and 14th Sts., for Eagle Pencil Co., 703 East 13th St. Noted Apr. 24.

**Pa., Phila.**—C. E. Oelschlager, archt. and engr., 1615 Walnut St., receiving bids building 4 story, 125 x 250 ft., rein.-con. addition to factory, for Goodyear Tire & Rubber Co., Huntingdon and Broad Sts. Cost to exceed $50,000.

**Pa., Phila.**—P. Grant, 113 Chestnut Ave., receiving bids building 2 story, 50 x 98 ft. brick garage and machine shop, on Marsden and Longshore Sts. E. A. Wilson, 1218 Chestnut St., archt.

**Pa., Pittsburgh**—R. M. Trimble, archt., Ferguson Bldg., receiving bids building 2 story, 30 x 60 ft. rein.-con. laundry and garage, stone foundation, here, for Surburban Genl. Hospital, Bellevue.

**O., Cleveland**—J. M. Miller, archt., Guardian Bldg., receiving bids building 2 story, 65 x 100 ft., rein.-con., steel and brick factory, on Prospect Ave., for Auto Equipment Co., Blackstone Bldg. About $60,000.

**O., Cleveland**—Osborn Eng. Co., engrs., 2848 Prospect Ave., receiving bids building 3 story, 100 x 200 ft., rein.-con., steel and brick addition to factory, on Warner Rd., for Ideal Tire Co., East 17th St. and Euclid Ave. About $125,000. Noted July 24.

**O., Cleveland**—Pompeian Mfg. Co., 2104 Superior Ave., receiving bids building 6 story, 75 x 150 ft., rein.-con., steel and brick factory and office, on East 24th St. and Wayne Ave. About $250,000. Private plans.

**O., Cleveland**—G. A. Schibble, archt., Cleveland Heights, receiving bids building 6 story, 150 x 200 ft., rein.-con., steel and brick factory, on Ontario St. and Fountain Court, for M. A. Bradley, Marion Bldg. About $100,000. Noted July 3.

**O., Dover**—Tuscora Rubber Co. receiving bids building 3 story, 200 x 300 ft., rein.-con., steel and brick factory. About $300,000. W. C. Owen Co., 1900 Euclid Ave., Cleveland, archts. Noted May 1.

**Mich., Detroit**—Stahl & Kinsey, archts., 435 Woodward Ave., receiving bids building 1 and 2 story, 100 x 260 ft., rein.-con. and brick factory, on Detroit Terminal Ry., near Deguinder St., for Fruehauf Trailer Co., 1371 Gratiot Ave. Noted July 24.

**Mich., Detroit**—D. R. Wells, archt., 435 Woodward Ave., receiving bids building 2 story, 90 x 131 ft., brick and steel wagon shop and barn, concrete foundation, on Crane Ave., near Mack Ave., for Genl. Ice Delivery Co., 275 Grand River Ave. About $50,000. Noted Aug. 21.

**Mich., Detroit**—Young Bros., Franklin St., receiving bids building 1 and 2 story, 105 x 161 ft., steel, brick and concrete factory, rein.-con. flooring, concrete foundation, on Beufait Ave. C. W. Brandt, 1114 Kresge Bldg., archt.

**Ill., Chicago**—Marshall & Fox, archts., 721 North Michigan Ave., receiving bids for 3 story, 100 x 150 ft., rein.-con and brick service station, concrete foundation, on Indiana Ave. and 23rd St., for Cadillac Automobile Co., 2301 South Michigan Ave. About $100,000.

**Ill., Chicago**—Osborn Eng. Co., engrs., 2848 Prospect Ave., Cleveland, receiving bids for 3 story, 200 x 350 ft. brick, rein.-con. and steel factory, on La Salle St., for Century Rubber Co., 1346 Rawson St. About $200,000. Noted July 31.

**Ill., Chicago**—Moores & Dunford, engrs., 38 South Dearborn St., receiving bids for 6 story, 50 x 120 ft., rein.-con. and brick storage plant, rein.-con. flooring, concrete foundation, at 6345 Bway., for S. S. David, c/o engineers. About $100,000.

**Ill., Chicago**—E. R. Krause, archt., 22 West Monroe St., receiving bids building 3 story, 50 x 80 ft. mill construction factory, brick foundation, on Orleans St. and Institute Pl., for A. C. Henschel & Co., 312 West Superior St. About $75,000.

**Wis., Kohler**—Until Sept. 2, by Kohler Co., and Brust & Philipp, archts., Free Press Bldg., Milwaukee, building 4 story, 180 x 260 ft. concrete, brick and steel factory, concrete foundation, on Elm St. About $40,000. Noted Aug. 7.

**Wis., Sheboygan**—Until Sept. 5, by W. C. Weeks, archts., 730 Ontario Ave., building 2 story, 60 x 85 ft. brick, rein.-con. and steel garage, brick foundation on Wisconsin Ave., for H. C. Prange Co., 731 North 8th St. About $65,000. Noted July 10.

**Wis., Two Rivers**—Until Sept. 10, by Juul & Smith, archts., Imig Bldg., Sheboygan building 2 story, 60 x 150 ft. brick and steel factory, concrete flooring, concrete foundation, on Main St., for S. Schwartz & Son. About $30,000. Noted July 17.

**Minn., Minneapolis**—Until Sept. 3 (change of date), by State Bd. Control, St. Paul, building 6 story, 120 x 180 ft., rein.-con. and brick storehouse, on University St. About $125,000. C. G. Johnson, Capital Life Bldg., St. Paul, archt. Noted Aug. 14.

**Ont., Guelph** — International Malleable Iron Co., Beverly St., is receiving bids building 1 story, 120 x 190 ft., concrete and brick addition to factory, concrete foundation. About $35,000.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**★Mass., Chicopee Falls** — Chicopee Mfg. Co., West Main St., let contract building 1 story, brick and steel addition to weave shed, rein.-con. flooring, concrete foundation, on West Main St., to F. T. Ley & Co., Inc., 499 Main St., Springfield. About $100,000. Noted July 31.

**★Mass., East Springfield**—(Springfield P. O.)—Atlantic Refining Co., 503 Turks Head Bldg., Providence, R. I., let contract constructing plant on Page Blvd. and Robbins St., to Metzger & Fisher Co., Otis Bldg., Phila. About $50,000. Plans include five 1 and 2 story rein.-con. buildings, rein.-con. flooring, concrete foundation.

**★Mass., Greenfield**—Amer. Tap & Die Co., 16 Arch St., let contract constructing 1 and 2 story, brick and mill construction addition to factory and office building, rein.-con. flooring, concrete foundation, to Clifford & Martin, 35 Graves Aves., Northampton. About $35,000.

**★Mass., Holyoke**—G. P. B. Alderman & Co., archts., Alderman Bldg., let contract to Casper Ranger Constr. Co., 20 Bond St., for 2 story, 60 x 75 ft. brick and concrete plant, rein.-con. flooring, concrete foundation, on Sargent and Beach Sts., for Halls Dairy, Inc., 11 Brooks Ave. About $60,000. Noted July 24.

**★Mass., Millbury**—A. C. Jackson, Oxford, let contract building 2 story, 60 x 80 ft. brick and concrete garage, concrete foundation, on South Main St., here, to S. Frazier, Millbury. About $25,000.

**★Mass., Springfield**—Gagnier & Angers, 327 Main St., will build 1 story, 82 x 85 ft. brick and mill construction factory, concrete flooring, concrete foundation, on Summer St. About $25,000. Work will be done by day labor.

**★Mass., Springfield** — Republican Co., Main St., let contract building 3 story, 96 x 100 ft. brick, steel and concrete plant, rein.-con. flooring, concrete foundation, on Cypress Ave. and Boylston Sts., to Flynt Bldg. & Constr. Co., 356 Main St., Palmer. About $100,000. Noted July 24.

**★Mass., Worcester**—Leland-Gifford Co., 1025 Southbridge St., let contract building 2 story irregular shaped, brick and mill construction addition to factory, concrete foundation, to E. J. Cross Co., 82 Foster St. About $50,000.

**★R. I., Albion**—Valley Falls Co. let contract building 4 story, 72 x 130 ft., brick and mill construction mill, concrete foundation, to P. Greene, Lonsdale. About $85,000.

**★R. I., Pawtucket**—J. and P. Coats, Inc., 366 Pine St., let contract building 4 story, 132 x 308 ft. spinning mill with 22 x 35 and 21 x 36 ft. ells, 4 story, 105 x 308 ft. twisting mill with two ells and 2 story, 48 x 82 ft. picker house, rein.-con. and brick, rein.-con. flooring, concrete foundation, to J. W. Bishop Co., 109 Foster St., Worcester, Mass. About $1,000,000. Noted June 12.

**★R. I., Pawtucket**—Glendana Silk Mills, Washington St., let contract building 2 story brick and mill construction mill, concrete foundation, to E. H. Bigney, 17 Custom House St., Providence. About $50,000.

**★R. I., Pawtucket**—Prescott Corp., Central Ave., let contract building 1 story, 55 x 225 ft., brick and mill construction mill, to Central Constr. Co., Slater Trust Bldg. About $60,000.

**★Conn., Ansonia**—H. C. Cook Co., Beaver St., let contract building 1 and 2 story, 60 x 250 ft. brick, concrete and timber addition to factory, concrete foundation, to Casper Ranger Constr. Co., 20 Bond St., Holyoke, Mass. About $40,000. Noted June 26.

**★Conn., Bridgeport**—Bryant Electric Co., 1421 State St., let contract building 4 story, 60 x 220 ft. brick and mill construction addition to factory, concrete foundation, on Hancock St., to W. Martin & Sons, 164 State St. About $90,000.

**★Conn., Bridgeport**—City let contract building 2 story, 150 x 200 ft., brick and concrete stable, garage and storage plant, rein.-con. flooring, concrete foundation, at Seaside Park, to S. W. Hubbel Bldg. Co., 589 Knowlton St. About $50,000. Noted Aug. 7.

**★Conn., Bridgeport**—J. Schwartz, c/o W. Schmidt, archt., 1188 Main St., will build 1 story, 50 x 114 ft. brick and concrete garage, rein.-con. flooring, brick founda-

Industrial Works (Continued)

tish, on North Main St. About $25,000. Work will be done by day labor. Noted May 8.

★**Conn., Fairfield**—G. Drouve Co., Drouve St., Bridgeport, let contract building 1 story, 120 x 200 ft. and 1 story, 30 x 80 ft. factories, also 2 story, 40 x 42 ft. office, brick and steel, rein.-con. flooring, concrete foundation, to W. R. Phillips & Co., 24 John St., Bridgeport. About $90,000.

★**Conn., Hartford**—Hartford Electric Light Co., 226 Pearl St., let contract building power station with 100,000 kw. or 125,000 h.p. capacity, on Colts Meadows, to Stone & Webster, 147 Milk St., Botson. About $1,000,000.

★**Conn., New Britain**—Stanley Rule & Level Co., 111 Elm St., let contract building 5 story, 40 x 60 ft., and 3 story, 30 x 36 ft. factories, brick and mill construction, concrete foundation, to B. H. Hibbard Co., 153 Arch St. About $38,000.

★**Conn., Shelton**—S. Blumenthal & Co., 37 Canal St., let contract building 1 story, 40 x 180 ft. weave shed and 4 story, 50 x 120 ft. factory addition, rein.-con., rein.-con. flooring, concrete foundation, to Thompson & Binger Co., 280 Madison Ave., New York City. About $70,000.

★**Conn., Stratford** (Bridgeport P. O.)—Raybestos Co., Bostwick and Railroad Aves., Bridgeport, let contract building 1 story, 90 x 160 ft. brick and steel factory addition, rein.-con. flooring, concrete foundation, on East Main St., here, to J. R. Sheehan, 211 State St., Bridgeport About $45,000.

★**N. Y., Brooklyn**—P. J. Carroll, 141 96th St., will build 1 story, brick and steel garage, rein.-con. flooring, brick foundation, on 4th Ave. and 92nd St. About $30,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Fush-Bocker Impvt. Co., 391 Christopher St., will build 1 story, 100 x 125 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on George St. between Knickerbocker and Flushing Aves. About $35,000. Work will be done by day labor. H. Kotler, pres.

★**N. Y., Brooklyn**—Libond Realty Co., 44 Court St., will build 1 story, 100 x 160 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 33d St. and 4th Ave. About $35,000. Work will be done by day labor.

★**N. Y., Brooklyn**—M. C. K. Contg. Co., 2168 Dean St., will build 1 story, 100 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Fulton and Sackman Sts. About $25,000. Work will be done by day labor. A. Margolis, pres.

★**N. Y., Brooklyn**—J. B. Sillman, 1511 Emmons Ave., will build 2 story, 100 x 150 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Pearl St. About $40,000. Work will be done by day labor.

**N. Y., Buffalo**—Bd. Pub. Wks. received bids building 2 story, 175 x 400 ft., concrete barn, rein.-con. flooring, concrete foundation, on Hudson St., from Metz Bros., 1295 Filmore Ave., $180,500; G. Schaaf Co., 258 Kingsley St., $199,997.

★**N. Y., Buffalo**—Wire Wheel Corp. of America, 1700 Elmwood Ave., let contract building 1 and 2 story, 59 x 195 ft., brick and steel addition to plant and forge shop, concrete foundation, to J. W. Cowper Co., Fidelity Bldg. About $65,000.

★**N. Y., Dunkirk**—Amer. Locomotive Wks., North Jay St., Schenectady, let contract building 1 story, 70 x 244 ft., concrete and steel carpenter shop, concrete foundation, to Lackawanna Bridge Co., Bell and Abby Sts., Buffalo. About $70,000. Noted Aug. 21.

★**N. Y., New York**—Amer. Radiator Co., 104 West 42nd St., let contract building 2 story, 115 x 185 ft. rein.-con. and steel factory and warehouse, rein.-con. flooring, concrete foundation, on Exterior and 149th Sts., to Post & McCord, 101 Park Ave. About $120,000.

★**N. Y., New York**—Buick Auto Repair Shop, 244 West 49th St., let contract building 1 story, 100 x 200 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 54th St. near 8th Ave., to Smith & Leo, 103 Park Ave. About $400,000.

★**N. Y., New York**—F. E. Vitolo, archt. and engr., 56 West 45th St., let contract to F. Angilelli, 25 Hewes Ave., building 5 story, 100 x 130 ft. brick and steel garage, rein.-con. flooring, concrete foudnation, at 541-551 West Bway., for Cuneo & Posta, 73 West Washington Sq. About $100,000. Noted June 5.

★**N. Y., New York**—Natl. Biscuit Co., 409 West 15th St., let contract building 2 story, 124 x 161 ft., brick, steel and rein.-con. bakery, rein.-con. flooring, concrete foundation, at 469-485 Bethune St., to I. Beers, 162 East 23rd St. About $125,000.

★**N. Y., New York**—H. O. Chapman, archt., 334 5th Ave., let contract to J. T. Brady, 103 Park Ave., for 7 story, 130 x 200 ft. brick and steel factory, rein.-con. flooring, concrete foundation, at 543-545 West 43rd St., for Park & Tilford, 529 West 42nd St. Noted June 26.

★**N. Y., New York**—J. Pedersen, 148th St. and 3rd Ave., will build 1 story, 65 x 155 ft., brick, steel and concrete garage, rein.-con. flooring, concrete foundation, on West Farms Rd. and 176th St. About $30,000. Work will be done by day labor. Noted Aug. 7.

★**N. J., Maurer**—Barber Asphalt Paving Co. let contract building rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation to Westinghouse, Church & Kerr, 37 Wall St., New York City. About $80,000.

★**N. J., Newark**—Amer. Platinum Wks., New Jersey Railroad Ave., let contract factory, to F. Kilgus, Inc., 13 South 6th building 3 story, 50 x 130 ft., rein.-con. St. About $100,000.

★**Pa., Erie**—See "Miscellaneous."

★**Pa., Phila.**—Genl. Mfg. Co., Delaware and Bigler Sts., let contract for 3 story, 100 x 300 ft., rein.-con. and brick fertilizer factory and storage building, to H. P. Friend, Inc., Boyer Arcade Bldg., Norristown.

★**Pa., Phila.**—Germania Worsted Mills, A and Indiana Sts., let contract building 3 story, 60 x 80 ft., concrete and brick factory, to W. Steele & Sons, 16th and Arch Sts. About $75,000.

★**Pa., Phila.**—Hood Mfg. Co., 19th and Westmoreland Sts., let contract building 3 story, 80 x 140 ft., concrete factory, to W. Steele & Sons, 16th and Arch Sts. About $120,000.

★**Pa., Phila.**—Pennsylvania Sugar Co., 135 South 2nd St., let contract building 2 story, 177 x 246 ft., concrete and brick storage on Shackamaxon and Delaware Aves., to O'Meara Constr. Co., 253 South Quinse St. About $150,000.

★**Pa., Phila.**—Phila. Drying Machine Co., 3351 Stokley St., let contract building 3 story, 80 x 170 ft., concrete and brick factory, on Stokley and Westmoreland Sts., to W. Steele & Sons, 16th and Arch Sts. About $45,000.

★**Pa., Pittsburgh**—Painter-Dunn Co., Center and Millvale Sts., let contract building 2 story, 100 x 150 ft. addition to present garage and storage plant, rein.-con. flooring, to Golden & Creek, 5th Ave. About $38,000.

★**Pa., Pittsburgh**—Waverly Oil Co., 54th St. and Allegheny Valley Street Ry., let contract constructing 6 story, 71 x 81 ft. rein.-con. and steel oil storage building and office, rein.con. flooring, concrete foundation, to D. T. Riffle, Keenan Bldg. About $92,000 (without tanks). Noted Aug. 7.

★**Md., Baltimore**—McCormick & Co., McCormick Blk., Pratt St. and Market Pl., let contract building 8 story, 240 x 320 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, on Light, Barre and Charles Sts., to M. A. Long & Co., Charles and Baltimore Sts. About $1,250,000. Noted Aug. 21.

★**Md., Hagerstown**—Brenner & Fleisher, Inc., 308 West Church St., let contract remodeling steel and brick warehouse, concrete foundation, to W. L. Middlekauff, 655 West Washington St. About $150,000.

★**W. Va., Huntington**—Voegele & Dinning Co., 603-5 4th Ave., let contract building 3 story, 80 x 150 ft. candy factory, rein.-con., rein.-con. foundation, on 7th Ave. and 7th St., to Arnold Constr. Co., 105 South La Salle St., Chicago. Noted July 24.

★**N. C., Ronda**—Ronda Cotton Mills, Inc., will build 1 story, 80 x 300 ft., brick and timber, cotton mill, brick and concrete foundation. About $250,000. Work will be done by day labor.

★**O., Canton**—Pennsylvania Lines West of Pittsburgh, Penobscot Bldg., Detroit, let contract building 1 story, 90 x 300 ft., steel and brick oil tank shop, at terminal, here, to Walbridge-Aldinger Co., 2356 Penobscot Bldg., Detroit.

★**O., Cleveland**—Christian, Schwartzenberg & Gaede, archts., 1900 Euclid Ave., let contract to S. W. Emerson Co., 1900 Euclid Ave., building 6 story, 107 x 125 ft., rein.-con., steel and brick factory, on West 3rd St. and Lakeside Ave., for Crown Land Co., East 22nd St. and Superior Ave. About $200,000. Noted Aug. 14.

★**O., Cleveland**—Natl. Lamp Wks., Nela Park, let contract building 2 story, 64 x 139 ft., rein.-con., steel and brick service building, to Crowell-Lundoff Little Co., Meriam Bldg. About $150,000. Noted Aug. 7.

★**O., Cleveland**—Natl. Malleable Castings Co., 7706 Platt Ave., let contract building 3 story, 49 x 62 ft., rein.-con., steel and brick, research laboratory, at 10509 Quincy Ave., to Crowell-Lundoff Little Co., Meriam Bldg. About $50,000. Noted July 31.

★**O., Cleveland**—G. S. Rider Co., archts. and engrs., Century Bldg., let contract to Hunkin-Conkey Co., Century Bldg., for 10 story, 89 x 105 ft., rein.-con., steel and brick warehouse at 5442 Blanche Ave., for Cleveland Worsted Mills Co., 6300 Bway. Ave. About $400,000. Noted Aug. 14.

★**O., Cleveland**—G. S. Rider, archt. and engr., Century Bldg., let contract to Hunkin-Conkey Co., Century Bldg., for 2 story, 97 x 167 ft., rein.-con., steel and brick addition to factory, for Jordan Motor Car Co., 1057 East 152nd St. About $75,000. Noted Aug. 14.

★**O., Cleveland**—Vichek Tool Co., 8711 Mt. Auburn St., let contract building 1 story, 96 x 256 ft., rein.-con., steel and brick addition to factory, to Hunkin-Conkey Co., Century Bldg. About $100,000. Noted Aug. 14.

★**O., Columbus**—Richards, McCarty & Bulford, archts., Hartman Bldg., let contract to Frank Hill Smith Co., Inc., 120 Bway., New York City, for 6 story, 45 x 187 ft., rein.-con. factory, on Fulton and High Sts., for C and E Shoe Co., Fulton St. About $300,000.

★**O., Dayton**—Dayton Eng. Laboratories Co., East 1st St., let contract building 6 story, 200 x 200 ft., rein.-con. and brick addition to factory, rein.-con. flooring, concrete foundation, on Taylor and Pitt Sts., to Danis-Hunt Constr. Co., 1st and Webb Sts. About $300,000. Noted July 10.

★**O., Dayton**—Seybold Machine Co., Louie St., let contract building steel and brick machine shop, brick foundation, to Austin Co. 16112 Euclid Ave., Cleveland. About $133,000.

★**Mich., Detroit**—Natl. Biscuit Co., 42-56 Woodridge St., let contract building 4 story, steel and brick bakery and sales office, on Milwaukee Ave., to G. A. Fuller, 540 Penobscot Bldg. Noted June 12.

★**Mich., Detroit**—M. W. Sales & Co., 76 East Jefferson Ave., let general contract building 1 story, 50 x 200 ft., steel warehouse, concrete foundation, to J. F. Dayton, 300 Holden Bldg., steel contract to L. Hall, Ferry Ave. and Grand Trunk Ry.

★**Ill., Chicago**—Hill Pump Valve Co., 2307 Archer Ave., let contract building 1st unit of plant, 1 story, rein.-con. and brick, concrete foundation, on Belmont Ave. and Knox St., to Stresenreuter Bros., 3020 South Halsted St. About $100,000.

★**Ill., Peoria**—Natl. Warehouse Co. let contract building 7 story, 80 x 140 ft., rein.-con. warehouse, concrete foundation, on Cedar and Washington Sts., to F. B. Hasbrouck, 325 Ellis St. About $200,000.

★**Wis., Peshtigo**—Peshtigo Pulp & Paper Co., let contract building 1 story, 70 x 242 ft. brick, rein.-con. and steel mill, rein.-con. flooring, brick foundation, on Main St., to Jorgenson Constr. Co., Main St., Denmark. About $59,000. Noted July 24.

★**Wis., Port Washington**—City let contract building 1 story, 40 x 180 ft. brick, rein.-con. and steel power plant, rein.-con. flooring, brick foundation, on Main St., to J. Ubbirk, Main St., $40,890. Noted July 10.

★**Wis., Sheboygan**—F. Blocki Co., North 8th St., let contract building 2 story, 113 x 155 ft. brick and steel factory, brick foundation, on 13th St., to H. Loesing, North 15th St. About $38,500. Noted May 29.

★**Neb., Falls City**—City let contract building 1 story, concrete, steel and brick power plant, to Merkle Mach. Co., 508 Interstate Bldg., Kansas City, Mo. About $43,100.

★**Neb., Omaha**—Lundgren Bros., 4956 Dodge St., let contract building 1 story, 45 x 240 ft., steel and brick garage, concrete foundation, to Kiewitt & Sons, 746 Omaha Natl. Bank Bldg. About $35,000.

★**Neb., Omaha**—Skinner Packing Co., 904 1st Natl. Bank, let contract building 8 story, 99 x 132 ft. warehouse, rein.-con. and brick, rein.-con. flooring, concrete foundation, on 12th and Douglas Sts., to G. W. Stiles Constr. Co., 1218 1st Natl. Bank Bldg. About $500,000.

★**N. D., Fargo**—Pence Motor Co., 800 Henn Ave., Minneapolis, Minn., let contract building 4 story, 75 x 140 ft. brick and concrete warehouse, here, to T. F. Power, 419 9th St. About $50,000

# Directory of Engineers

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**Adams, H. S.,**

*Civil Engineer.*
Wharf and Dock Construction. River and Harbor Works.
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Buildings (Continued)

building 2 story, brick and stone. About $50,000. W. Seamar, R. R. No. 1, Clinton, secy.

**Minn., Balaton**—School—Bd. Educ. receives bids in fall building 2 story, brick and rein.-con., grade and high school. About $75,000. C. H. Parsons, Builders' Exch., Minneapolis, archt. Noted June 12.

**Minn., Duluth**—Exchange—Zenith Telephone Co. having plans prepared by A. H. Stem, archt., 601 Endicott Bldg., St. Paul, building 4 story addition, on 1st Ave. About $75,000.

**Minn., Fergus Falls**—Courthouse and Jail—Ottertail Co. having plans prepared by Buechner & Orth, archts., 500 Shubert Bldg., St. Paul, for courthouse and jail. About $400,000.

**Minn., St. Paul**—Church—St. John's congregation having plans prepared by Alden & Harris, archts., Exch. Bank Bldg., for 1 story, 70 x 125 ft., brick and stone, on 5th and Forest Sts. About $130,000.

**Kan. Augusta**—Hospital — City having plans prepared by J. R. Switzel, archt., Augusta, building 3 story, 44 x 120 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation. About $100,000.

**Kan. El Dorado**—Church—First Baptist congregation plans to build 2 story, brick. About $80,000. J. H. Felt & Co., 802 Grand Ave. Temple, Kansas City, Mo., archts.

**Kan., Hutchinson**—Bank — State Exch. Bank, c/o F. W. Cotter, pres., having plans prepared by W. E. Hulse & Co., archts., Hutchinson, building 6 story, 75 x 150 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation. About $300,000. Noted June 19.

**Kan., North Topeka** (Topeka P. O.)—School—Bd. Educ. having plans prepared by T. W. Williamson & Co., archts., 418 Central Natl. Bank Bldg., Topeka, for 2 story, 66 x 84 ft., brick, rock foundation. About $50,000. Engineer not selected.

**Neb., Clay Center**—School—Bd. Educ. plans to build 2 story, brick school. About $100,000. W. E. Hulse & Co., Hutchinson, Kan., archts.

**Neb., Fairview**—School—Bd. Educ. plans to build 2 story brick school. About $50,000. W. E. Hulse & Co., Hutchinson, Kan. archts.

**N. D., Bismarck**—Bank—First Guarantee Bank having plans prepared by A. Moorman & Co., archts., Chamber Commerce Bldg., St. Paul, Minn., building 2 story, 50 x 60 ft. stone. About $60,000.

**Mont., Havre**—Bank or Office—Havre Natl. Bank plans to build 3 to 5 story, 30 x 140 ft., on 3rd Ave and 2nd St. About $150,000. A. S. Reth, cashier. Architect not selected.

**Mont., Missoula** — Theatre — Smead-Simonds Theatre Co. plans to build 4 story, 68 x 190 ft. theatre on Higgins Ave., to be known as Liberty Theatre. About $200,000. O. Bakke, Gibson Bldg., archt.

**Mo., St. Louis**—Store and Office—J. T. Trumbell, Laclede Bldg., plans to build 4 story, 60 x 130 ft. concrete and brick, rock foundation, on Grand Ave. About $60,000. Architect not selected.

**Tex., Beaumont**—Hotel—Beaumont Hotel Co., Crockett and North Park Sts., plans to build hotel. About $80,000. Mann & Stern, 708 A. O. U. W. Bldg., Little Rock, archts.

**Tex., Dallas** — Gymnasium — Bd. Educ. plans to construct manual training building and gymnasium at Bryan St. High School. About $60,000. Lang & Witchell, Southwestern Life Bldg., archts.

**Tex., Georgetown** — High School—City voted $100,000 bonds to build high school.

**Tex., Weatherford**—Hotel—Weatherford Hotel Co. plans to build 4 story, 54 x 97 ft., brick. About $100,000. D. S. Castle, Abilene, archt.

**Okla., Tulsa**—Church—Methodist Church plans to build 4 story, 80 x 140 ft., concrete, stone and brick, rein.-con. flooring, concrete foundation. About $200,000. Hedrick & Huff, Kansas City, Mo., engrs. G. Winkler, 414 Palace Bldg., archt.

**Okla., Tulsa**—Club—D. R. Travis, Travis Heights, having plans prepared by N. B. Fleming archt. and engr., Kennedy Bldg., building 2 story, 70 x 100 ft., brick and stone. About $90,000.

**Okla., Tulsa**—Office—Tidal Oil Co., 6th and Cheyenne Sts., plans to build 3 story, 65 x 90 ft. rein.-con., at 604 South Cheyenne St. About $50,000. Architect not selected.

**Colo., Denver**—Schools, etc.—City election Sept. 23, to vote on $8,000,000 bonds to build and furnish new schools.

**Wash., Aberdeen**—Armory—State Bd. Control, Olympia, having preliminary plans prepared for armory, here. State Legislature appropriated $100,000 for project.

**Wash., Chehalis**—Gymnasium—State Bd. Control, Olympia, rejected bids received building concrete or brick, at Boys' Training School, here. $60,000 available for project. Plans will be revised and work readvertised. J. Zittel, Jaimeson Bldg., Spokane, arch.

**Wash., Hoquiam**—Home—City plans to build 2 or 3 story, brick or stone home for Amer. Legion. Committee has been appointed to select site. About $50,000. N. J. Blagen, c/o Gray Harbor Mill Co., promoter. Architect not selected.

**Wash., Port Angeles**—Hall—Loyal Order of Moose, Lodge No. 991, plans to build 3 story, brick or concrete. About $50,000. M. Camp, secy. W. K. Nattinger, aud. Architect not selected.

**Ore., Astoria**—Hotel—Astoria Apartment Co. soon lets contract building 3 story, 60 x 200 ft. brick. About $150,000. F. M. White, Chamber Commerce Bldg., Portland, archt. H. M. McBride, Yeon Bldg., Portland, pres.

**Ore., Echo**—Bank—Bank of Echo plans to build 2 story stone or pressed brick, on Main and Bonanza Sts. About $50,000. R. B. Stanfield, cashier. Architect not selected.

**Ore., Portland**—Business—Houghtaling & Dougan, archts., Henry Bldg., soon let contract building 4 story, 100 x 120 ft., rein.-con., rein.-con. flooring, concrete foundation on Bway. and Everett St., for Mitchell, Lewis & Staver, 346 East Morrison St. About $85,000.

**Cal., Los Angeles** — College—California School of Religion plans to erect group of college buildings in Hollywood Sect. About $700,000. Address C. C. Chapman, Fullerton. Architect not selected.

**Cal., Pasadena** — Hospital — Pasadena Hospital Assn. having preliminary plans prepared for 6 story, fireproof addition to hospital on Congress and Fairmont Sts. About $500,000. Address D. Blankenhorn, 45 South Raymond Ave. Architect not selected.

**Ont., Oshawa**—Church—St. George's congregation having plans prepared by E. Smith & Sons, archts., 33 Scott St., Toronto, for 1 story, steel and brick, concrete foundation. About $95,000. Noted July 17.

**Ont., Ottawa**—Office—Dept. Pub. Wks., Ottawa, soon lets contract building 4 story timber, concrete foundation, on Victoria St. About $55,000. R. C. Wright, c/o Dept. Pub. Wks., archt.

**Ont., Toronto** — Hotel — King Edward Hotel Co., King St., E., having plans prepared by Esenwein & Johnson, archts., Ellicott Sq., Buffalo, N. Y., for 15 story, steel, brick and stone addition, rein.-con. flooring, concrete foundation. About $1,500,000. O. E. Goldschmidt, 116 West 39th St., New York City, engr. Noted Aug. 21.

**Ont., Toronto**—Hotel—United Hotels Co. purchased site on King St. and plans to build 15 story 92 x 198 ft. hotel. About $2,000,000. G. O'Niel, King Edward Hotel, mgr.

**Ont., Toronto**—Machinery Hall, etc.—Canadian Natl. Exhibition, 36 King St., plans to construct machinery hall and manufacturer's building, brick and steel, in Exhibition Park. About $1,500,000.

**B. C., Vancouver**—Bank—Bank of Montreal, 109 St. James St., Montreal, plans to build 8 story, 75 x 120 ft., on Granville and Dansmuir Sts., here. Cost between $500,000 and $1,000,000. Architect not selected.

## BIDS DESIRED

**N. Y., Kings Park**—Hospital—Until Sept. 10, by State Hospital Comn., Capitol, Albany, building, heating, sanitary and electric work for Kings Park State Hospital, here. E. S. Elwood, secy. state hospital comn. L. F. Pilcher, Capitol, Albany, state archt.

**N. J., Atlantic City**—School—Until Sept. 3, by H. D. Dagit, archt., 4527 Pine St., building 2 story, 95 x 135 ft., brick and terra cotta, on Atlantic and Massachusetts Aves., for Holy Spirit Roman Catholic congregation.

**Pa., Phila.**—Bank—H. Miller, archt., 1420 Chestnut St., receiving bids building 1 story, 36 x 80 ft., stone and granite, at 23 East King St., for Peoples Natl. Bank, 7th and Girard Sts. About $100,000.

**Pa., Phila.**—Hospital—Until Sept. 2, by H. W. Castor, archt., 21 South 12th St., building 5 story, 80 x 125 ft., brick, for Methodist Episcopal Hospital, Broad and Ritner Sts. Noted Aug. 21.

**O., Cleveland**—Office—See "Industrial Works."

**O., Cleveland**—Theatre and Office—A. M. Allen Co., engrs., 1900 Euclid Ave., receiving bids building 10 story, 150 x 225 ft., rein.-con., steel and brick, on East 15th St. and Euclid Ave., here, for Allen Bros., Richmond St., Toronto, Ont. About $275,000. C. H. Crabe, 235 Dime Bank Bldg., Detroit, Mich., archt. Noted Aug. 14.

**O., Cleveland Heights** (Cleveland P. O.)—School—Bd. Educ. receiving bids building 2 story, 100 x 200 ft., rein.-con., steel and brick addition, on Roxboro Rd. About $90,000. F. C. Warner, 767 Hippodrome Bldg., archt. Noted Apr. 10.

**O., Mechanicsburg** — School—Until Sept. 18, by Bd. Educ., building rein.-con. and brick, rein.-con. flooring, concrete foundation. Former bids rejected. Auditorium has been eliminated from original plans. About $75,000. R. C. Gotwald, Gotwald Bldg., Springfield, archt. Noted Aug. 7.

**Mich., Cadillac**—Church—W. E. N. Hunter, archt., 1306 Chamber of Commerce, Detroit, receiving bids building 1 story, 80 x 80 ft. rein.-con. and brick, concrete foundation, for 1st Methodist congregation. About $50,000. Noted July 17.

**Mich., Detroit**—Hotel—R. H. Marr, archt., 1204 Kresge Bldg., receiving bids building 3 story, 35 x 200 ft., brick, steel and stone, concrete foundation, at 34 Piquette Ave., for Vinton Co., Vinton Bldg. About $100,000. Noted July 24.

**Mich., St. Louis**—School—Until Sept. 1, by M. E. Hull, secy. Bd. Educ., building 2 story, brick, steel and rein.-con. addition, concrete foundation, in Dist. No. 1. About $50,000. Cowles & Mutscheller, Chase Bldg., Saginaw, archts. Noted July 24.

**Ill., Belleville**—High School—Until Dec. 6, by Riester & Rubach, archts., Belleville, building 5 story, 80 x 160 ft., for Bd. Educ. About $198,000. Noted June 5.

**Ill., Chicago**—Bank—C. Hatzfeld, archt., 7 South Dearborn St., receiving bids for 2 story, 35 x 90 ft., brick and timber, concrete foundation, on 101st St. and Ewing Ave., for East Side Trust & Savings Bank, c/o Architect. About $60,000.

**Ill., Chicago**—Theatre, Stores, etc.—A. L. Levy, archt., 111 West Washington St., receiving bids building 3 story, 90 x 150 ft. rein.-con. and steel theatre, store and office building, rein.-con. flooring, concrete foundation, at 2040 West Division St., for Reingold & Auerbach, 856 North Clark St. About $250,000.

**Ia., Council Bluffs**—School—Until Sept. 12, by Bd. Educ., building 2 story, 60 x 300 ft., rein.-con., brick and steel, rein.-con. flooring, rock foundation. About $260,000. Proudfoot, Bird & Rawson, Hubbell Bldg., Des Moines, archts.

**Ia., Des Moines**—Bank—Bankers Trust Co., 500 Walnut St., receiving bids for remodeling 1 story, 44 x 136 ft., rein.-con., brick and stone. About $100,000. A. H. Anderson, 117 South Wabash St., Chicago, archt.

**Minn., Crookston**—Dining Hall—Until Sept. 2, (change of date), by C. H. Johnson, archt., Capital Bank Bldg., St. Paul, building 3 story, 50 x 150 ft. brick at State Experimental Farm, here. About $85,000. C. L. Pillsbury Co., Metropolitan Life Bldg., Minneapolis, engrs. Noted July 3.

**Minn., Hibbing**—Bank—A. Moorman & Co., archts., Chamber Commerce Bldg., St. Paul, receiving bids building 2 story, 105 x 125 ft., for 1st Natl. Bank, 301 3rd Ave. About $150,000. L. C. Newcombe, cashier. Noted July 24.

**Minn., St. Paul**—Store—Until Oct. 1, by Buechner & Orth, archts., Shubert Bldg., building 5 story, 75 x 100 ft., rein.-con. addition to store on 7th and Robert Sts., for Emporium Co., Robert St. between 7th and 8th Sts. About $150,000. Noted June 19.

**Minn., Virginia**—Court House—Until Oct. 1, by W. H. Borgen, aud. St. Louis Co., building 2 story, 85 x 120 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on 3rd St. About $250,000. Croft & Boerner, Lonsdale Bldg., Duluth, archts. and engrs. Noted July 24.

**Kan., Wichita**—School—Until Sept 2, by Bd. Educ., building Mark Twain School, 3 story, 109 x 185 ft., brick, rein.-con. flooring, concrete foundation. About $200,000. L. Schmidt, 121 North Market St., archt H. A. Nahle, Reliance Bldg., Kansas City Mo., engr. Noted Aug. 14.

Buildings (Continued)

**Ariz., Globe**—High School—Until Sept. 15, by G. R. Hill, clk. School Dist. No. 1, Gila Co., building brick and concrete addition to high school. About $165,000. Frost & Frost, El Paso, Tex., archts. Noted June 12.

**Cal., Berkeley**—School—Until Sept. 2, by Secy. Bd. Educ., building 1 story, 60 x 291 ft., brick addition to school on Russell St., rein.-con. flooring, concrete foundation. About $55,000. C. H. Snyder, 251 Kearney St., San Francisco, engr. W. R. Ratcliff, Jr., 1st Natl. Bank Bldg., archt.

**Cal., Berkeley**—School—Until Sept 2, by Bd. Educ. building 1 story, 89 x 175 ft., frame addition to school on Claremont Ave., concrete foundation. About $55,000. J. W. Plachek, 2014 Shattuck Ave., archt. Noted June 26.

**Que., Montreal**—Church—Until Sept. 1, by V. Venne, archt., 76 St. Gabriel St., building 60 x 94 ft., steel and brick, on St. Denis St., for Nôtre Dame congregation. About $150,000.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., New Bedford**—Theatre, etc.—Cohen Bros., 225 Mt. Pleasant St., let contract constructing 2 story, 75 x 120 ft., brick and rein.-con. theatre, store and office building, rein.-con flooring, concrete foundation, on Acushnet Ave., to E. A. Abbott Co., 3 Park St., Boston. About $175,000. Noted June 19.

★**Mass., Turners Falls**—Bank—T. M. James, archt., 185 Devonshire St., Boston, let contract to J. H. Thomas, Turners Falls, for 1 story, 40 x 60 ft. brick and concrete, rein.-con. flooring, concrete foundation, on Ave. A and 5th St., for Crocker Natl. Bank, 52 Ave. A. About $50,000. Noted Aug. 14.

★**Mass., West Fitchburg** (Fitchburg P. O.)—Housing—Amer. Woolen Co., Shawmut Bank Bldg., Boston, let contract building thirty 1 and 2 story, 4, 5 and 6 room, brick and frame houses for workmen, concrete foundation, to The Housing Co., 308 Boylston St., Boston. About $100,000.

★**Mass., Willimansett** (Holyoke P. O.)—Housing—G. Haarmann & Co., Inc., Commerce St., Holyoke, let contract building group of 2 and 2½ story brick and timber houses for workmen, concrete and brick foundation, here, to P. J. Kennedy & Co., Inc., 464 Maple St., Holyoke. About $50,000. Noted Aug. 7.

★**R. I., Wakefield**—Theatre—A. Miller, c/o H. A. Lewis, archt., 75 Westminster St., Providence, let contract building 2 story 52 x 95 ft. concrete, rein.-con. flooring, concrete foundation, on opera house site, here, to L. N. Oatley, Wakefield. About $50,000. Noted May 8.

★**Conn., Bridgeport**—Lodge—Sons of St. George Society, 176 Fairfield Ave., let contract building 3 story, 60 x 150 ft. brick, terra cotta and steel, rein-con. flooring, concrete foundation, on Stratford Ave., to Vaustone & Vaustone, 328 Park Ave. About $65,000. Noted June 5.

★**Conn., Hartford**—Office — Connecticut Genl. Life Insurance Co., 64 Pearl St., let contract building 5 and 6 story, brick, steel and stone, brick foundation, on Elm St., to M. Eidlitz, 30 East 42nd St., New York City. Noted Jan. 16.

★**Conn., Hartford**—Office—Hartford Fire Insurance Co., 125 Trumbull St., let contract building brick, concrete and steel, rein.-con. flooring, concrete foundation, on Farmington Ave., to M. Eidlitz & Sons Co., 30 East 42nd St., New York City. About $1,000,000. Noted Aug. 14.

★**N. Y., Brooklyn**—School—Y. M. C. A., 1181 Bedford Ave., let contract building 3 story, 75 x 100 ft., brick, steel and stone, brick foundation, on Bedford Ave. and Monroe St., to Wills-Egeloff, 101 Park Ave., New York City.

★**N. Y., Buffalo**—Theatre—J. Kozanowski, 754 Fillmor Ave., let masonry contract building 1½ story, 54 x 135 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, on Bway., to Metz Bros., Fillmore Ave. About $60,000.

★**N. Y., Elmhurst** — Temple—Mispah Lodge, F. & A. M., let contract building 2 story, 50 x 100 ft., brick and steel, brick foundation, on Whitney Ave., to J. C. Woodruff, 1 Bridge Plaza, Long Island City. About $130,000.

★**N. Y., Jamaica**—Theatre—Long Island Motion Picture Co., Inc., will build 135 x 140 ft., brick, steel and stone, brick foundation, on Fulton St. About $250,000. Work will be done by day labor.

★**N. Y., Lackawanna**—Temple—F. & A. M. Lackawanna Lodge 887, let contract building 2 story, 50 x 100 ft., brick and rein.-con., rein.-con. flooring, concrete foundation, on Ridge Rd., to G. Schantz, Seneca St., Buffalo. About $75,000.

★**N. Y., Long Island City**—Bank—Long Island City Savings Bank, Bridge Plaza, let contract building 4 story, 70 x 80 x 100 ft., brick, steel and stone, brick foundation, on Hunter Ave. and Academy Pl., to Gillis-Campbell Co., 101 Park Ave., New York City. Noted June 19.

★**N. Y., New York**—Hotel—Warren & Wetmore, archts. and engrs., 16 East 47th St., let contract to Thompson-Starrett Co., 49 Wall St., for 180 x 200 ft. brick, steel and stone, brick foundation, on Park Ave. and 51st St., for D. M. Linard Co., c/o architects. Noted Aug. 14.

★**N. Y., New York**—Hotel—Three Hundred Five West End Corp., 200 West 72nd St., will build 14 story, 100 x 143 ft. brick, steel and stone, brick foundation, at 301-303 West End Ave. About $400,000. Work will be done by day labor. Noted Aug. 21.

★**N. Y., New York**—Office—Amerigus Realty Co., 71 Bway., let contract altering 16 story brick and steel, at 32 Bway., to H. V. Vought Constr. Co., Grand Central Terminal. About $100,000. Noted Aug. 7.

**N. Y., New York**—Office—One Hundred Ten William St. Corp. will build 18 story brick, stone and steel addition, brick foundation, on William and John Sts. Work will be done by day labor. Noted June 12.

★**N. Y., Pelham**—School—Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, let contract to Moody Eng. Co., 90 West St., New York City, building 2 story, 168 x 171 ft., brick and steel, brick foundation for Bd. Educ. About $115,000. Noted Aug. 7.

★**N. J., Maple Shade**—School—Bd. Educ. let contract building 2 story, 63 x 113 ft. brick, to G. W. Shaner & Son, Palmyra. About $36,000. Noted Aug. 14.

★**Pa., Allentown**—Theatre and Office—Wilmer & Vincent Theatre Co., 1451 Bway., New York City, let contract building 3 story, 116 x 116 and 58 x 90 ft. steel and brick, on 5th and 6th Sts. here, to Ochs Constr. Co., 442 Wire St. Noted June 12.

★**Pa., Butler**—Bank—Guarantee Safe Deposit & Trust Co., 231 South Main St., let contract building 1 story, 60 x 98 ft., rein.-con., steel, brick and granite, rein.-con. flooring, concrete foundation, on Jefferson St., to G. W. Stiles, La Salle St., Chicago. About $50,000. Noted Aug. 14.

★**Pa., Erie**—School—Bd. School Dirs. let general contract for new East High School, to H. Shenk Co., 12th and Sassafras Sts., $868,736; heating and ventilating systems, to Gannon & Carey, 903 Parade St., $48,-000; plumbing to Huffman-Wolfe Co., Columbus, O., $23,300. Noted July 24.

★**Pa., Phila.** — Home — G. I. Lovatt, archt., 418 Walnut St., let contract to P. J. and J. T. Whelan, Lincoln Bldg., constructing several 3 story concrete and brick buildings, on Wyalusing and 49th Sts., for St. John's Home. Noted July 24.

★**Pa., Phila.**—Theatre—D. Hogan, 6043 Columbia St., will build 1 story, 42 x 150 ft., brick, stone and terra cotta, on 70th and Elmwood Sts. About $50,000. Work will be done by day labor.

★**Pa., Spring City** — Infirmary — East Pennsylvania State Institute for Feeble Minded let contract building 2 story, 28 x 170 with two wings, 40 x 80 ft. brick and stone, to F. Keiser, Pottstown, $157,300. Noted Aug. 7.

★**N. C., Troy**—Court House and Jail—Montgomery Co. let contract building 4 story, 65 x 110 ft., rein.-con., steel and brick, rein.-con. flooring, rock, brick and concrete foundation, to J. W. Stout & Co., Sanford. About $125,000.

★**O., Canton** — Locker Room — Pennsylvania Lines West of Pittsburgh, Penobscot Bldg., Detroit, let contract building 2 story, 62 x 66 ft., steel and brick, rein.-con. flooring, concrete foundation, here, to Walbridge-Aldinger Co., 2356 Penobscot Bldg., Detroit.

★**O., Cleveland**—Church—Third Reformed Church, 1531 East 36th St., lot contract building 1 story, 72 x 100 ft., rein.-con., steel and brick, on Eddy Rd., to D. Lindhorst Co., Amer. Trust Bldg. About $60,-000. Noted Aug. 14.

★**O., Cleveland** — Office — E. McGeorge, archt. 1900 Euclid Ave., let contract to W. I. Thompson Co., 6110 Euclid Ave., building 2 story, 39 x 123 ft., rein.-con., steel and brick addition, for Parish & Bingham Co., 10601 Madison Ave. About $75,000. Noted Aug. 14.

★**O., Cleveland**—Salesroom—P[illegible]tsinger, archt., 608 Caxton Bldg., let contract to Forschner Co., East 10th St. and St. Clair Ave., building 4 story, 20 x 119 ft. rein.-con., steel and brick, for L. Max[illegible] Pub. Sq. About $50,000. Noted Aug. 14.

★**Mich., Decatur**—School—Bd. Educ. let contract building 2 story, rein.-con. brick and steel, concrete foundation, to H. L. Vander Horst, Kalamazoo. About $64,800. Noted July 3.

★**Mich., Flint** — Church — Van Leyen, Schilling & Keough, archts., 1115 Union Trust Bldg., Detroit, let contract to Pauboise Constr. Co., Flint, building rein.-con. and brick church, on Beach St. for St. Mathews congregation. Noted July 31.

★**Mich., Negaunee**—Church, School and Parish House—Van Leyen, Schilling & Keough, 1115 Union Trust Bldg., Detroit, let contract to Foster Constr. Co., 114 Grand St., Milwaukee, Wis., building church, 60 x 120 ft., also parish house and school, each 40 x 60 ft., rein.-con., brick and steel, for St. Paul's congregation. About $150,-000. Noted July 31.

★**Mich., Wahjamega**—Hospital—E. R. Dunlop, archt., 709 Hammond Bldg., Detroit, let contract to Spence Bros., 1 Brewer Bldg., Saginaw, building 1 story, 43 x 265 ft., brick, steel and rein.-con., concrete foundation, for Michigan Colony for Epileptics. About $79,000. Noted Aug. 7.

★**Ill., Chicago**—Hospital—D. S. Klafter, archt., 64 West Randolph St., let contract to Ebenholtz & Jorgensen, 2757 West North Ave., for 6 story, 36 x 150 ft., rein.-con. tile and brick, rein.-con. flooring, concrete foundation, on Hoyne Ave. and Monroe St., for West End Hospital, 2058 West Monroe St. About $100,000. Noted June 5.

★**Ill., Chicago**—Sales—Foltz & Brand, archts., 111 West Washington St., let contract to A. Brundage, 110 South Dearborn St., for 3 story, 110 x 150 ft., rein.-con. and brick auto sales and storage building, concrete foundation, on 22nd St. and Union Ave., for H. F. DuPont, of New York, c/o architects. About $125,000. Noted July 3.

★**Ill., Joliet**—Store—L. F. Beach & Co. let contracts building 4 story, 60 x 150 ft., rein.-con., rein.-con. flooring, concrete foundation, on Cass St. and Chicago Ave., as follows: stone and carpentry, to A. Groth & Co., Joliet; steel and erection to Joliet Bridge Co., Joliet. About $250,000. Noted June 26.

★**Ia., Marshalltown**—Hospital—Sisters of Mercy, Davenport, let contract building 3 story, 48 x 103 x 104 ft., rein.-con., brick and stone, here, to Lightner Bros., 611 Security Bldg., Cedar Rapids. About $200,-000.

★**Minn., Ely**—School—Bd. Educ. let contract building 2 story, 141 x 150 ft. rein.-con. and brick industrial school, to Madsen & Peterson, 646 Builders' Exch. Bldg., Minneapolis, $168,580. Noted Aug. 14.

★**Minn., Rochester** — Hotel—Kahler-Roberts Corp. let contract building 8 story, 50 x 140 ft., rein.-con., to G. Schwartz & Co., Rochester. About $1,000,000. Cost plus percentage basis. Noted July 10.

**Minn., Winona**—Normal School—State Bd. Control, St. Paul, received only bid building 3 story, 46 x 130 ft., rein.-con. and brick, here, from H. W. Seidlitz, Winona, $93,500. Noted July 3.

★**Neb., Blue Springs**—School—Bd. Educ. let contract building 3 story, 100 x 140 ft., rein.-con., steel and brick, rein.-con flooring, rock foundation, to J. P. Riddle, Douglas Blk., Omaha, $51,151. Noted Aug. 14.

★**Neb., Omaha**—Church—Our Lady of Lourdes Parish, 2118 South 32nd Ave., let contract buildng 1 story, 52 x 130 ft., brick and concrete foundation, on 32nd and Francis Sts., to McGowan & Jacobberger, 2708 Meredith Ave. About $76,000.

★**N. D., Jameston** — Hospital — State Bd. Administration, Bismarck, let contract building 4 story, 170 x 180 ft. concrete and brick, to State Hospital for Insane, here, to W. J. Kearns Co., Valley City. About $150,000. Noted Aug. 7.

★**Wyo., Manville**—Hotel—Niobrara Investment Co. let contract building 4 story, 110 x 132 ft. concrete, to Casper Home Builders, Casper. About $200,000; percentage basis.

★**Wyo., Worland** — High School — Bd. Educ., Washakie Co., let contract building 2 story, 76 x 130 ft. concrete, to Veatch Co., Billings, Mont. About $61,000.

Buildings (Continued)

★**Mo., Excelsior Springs**—Hotel—A. J. Dean, 1007 Waldheim Bldg., Kansas City, will build 3 story, 30 x 130 ft., rein.-con., steel and brick addition to Plaza Hotel, rein.-con. flooring, rock foundation. About $100,000. Work will be done by day labor.

★**Mo., St. Louis**—Office—Consolidated Investment Co., Syndicate Trust Bldg., let contract building 7 story, 70 x 130 ft., brick, steel and concrete, rock foundation, at 301 North 9th St., to J. Hill Constr. Co., Syndicate Trust Bldg. About $50,000.

★**Tex., Breckenridge**—Bank—First Natl. Bank let contract building 50 x 100 ft., brick and stone, to J. N. Mayfield, Breckenridge. About $100,000.

★**Tex., Dallas**—Office—Downtown Development Assn. let contract building 12 story, 100 x 100 ft., rein.-con. and brick, rein.-con. flooring, on Main and Lamar Sts., to Gilsonite Contg. Co., Great Southern Life Bldg. About $700,000. Noted July 17.

★**Okla., Durant**—School—Bd. Educ. let contract building 3 story, 60 x 114 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation, to Manhattan Constr. Co., 3rd and Fon du lac Sts., Muskogee. About $101,000.

★**Okla., Tulsa** — Church — Centenary Methodist Church, 629 North Denver St., let contract building 2 story, 79 x 92 ft., rein.-con., at 621 North Denver St., to J. B. Wilson, 229 Lynch Bldg. About $135,000.

**Nev., Winnemucca**—Court House—Bd. Supervs. Humboldt Co. received lowest bid building 2 story, rein.-con., granite and tile, here, from H. S. Williams, Hearst Bldg., San Francisco, $126,000. Noted June 19.

★**Ariz., Morenci**—High School—School Trustees let contract building 2 story, frame and plaster, to L. Moore Contg., Two Republics Bldg., El Paso, Tex., represented by J. L. Westerman, Clifton. About $110,000. Noted July 3.

★**Ore., Eugene**—Gymnasium, etc. — Bd. Regents, University of Oregon, let contract constructing 3 story, 86 x 276 ft., gymnasium and club building for women, brick, brick foundation, on campus, to W. O. Heckart, Eugene. About $200,000. Noted Aug. 7.

★**Cal., Eureka**—Theatre—R. Swazey let contract building 40 x 130 ft., rein.-con., on 4th and G Sts., to A. Anderson, Eureka. About $100,000. Ackerman & Harris, Hippodrome Circuit, San Francisco, lessee.

★**Cal., Modesto**—Store—G. Perley, 704 12th St., let contract building 3 story, 50 x 140 ft., brick, to G. J. Ulrich, 419 Sycamore St. About $60,000.

★**Cal., San Francisco**—Office—Metropolitan Life Insurance Co., 600 Stockton St., let contract building concrete and steel addition, to J. R. Furlong, Monadnock Bldg., $100,535.

★**Cal., San Rafael**—Church—St. Raphael's Parish let contract building rein.-con. church, to J. L. McLaughlin, 244 Kearney St., San Francisco. About $50,000.

★**Que., Hudson Heights**—School—School Bd. Comrs. let contract building 3 story, 40 x 50 ft., concrete, steel and brick, concrete foundation, on River Rd., to D. W. Long, 240 William St., Montreal, and J. H. Hutcheson, 92 St. Ambrose St., Montreal. About $53,000.

★**Que., St. Anne des Monts**—Church—Congregation of St. Anne let contract building 50 x 84 ft. concrete, steel and brick, concrete foundation, on St. Francis Xavier St., to A. H. Morin, Main St., Trois Pistoles, $139,750.

★**Ont., Sandwich**—School—Van Leyen, Schilling & Keough, archts., 1115 Union Trust Bldg., Detroit, Mich., let contract to Wells & Gray, Bank of Commerce Bldg., Windsor, building 2 story, 60 x 85 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Wyandotte St., for Bd. Educ. About $60,000. Noted July 31.

★**B. C., Point Grey**—School—School Bd. let contract building 3 story, rein.-con., rein.-con. flooring, concrete foundation, on Granville and 25th Aves., to Hodgson, King & Marble, 508 London Bldg., Vancouver, $69,939.

# Federal Government Work

## PROPOSED WORK

**Md., Annapolis**—Boilers—Spec. 4025—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install 3 boilers here. About $45,000.

**Md., Annapolis**—Power House—Spec. 4026—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here. About $85,000.

**D. C., Wash.**—Post Office—Post Office Dept. plans to build post office at 416 7th St., S. W., complete with equipment, heating, light, water, safe, parcel post and postal savings bank equipment and rural delivery fixtures.

**Va., Hampton Roads**—Engine House, Blacksmith, Plumbing and Machine Shops—Spec. 4027—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here. About $160,000.

**Wyoming**—Road Work—J. S. Bright, dist. engr., U. S. Forest Service, 301 Custom House Bldg., Denver, Colo., soon receives bids grading 33.72 mi. sects. 5 to 9, Wind River National Rd., Tremont and Lincoln Counties, involving 144 acres clearing and grubbing, 155,600 cu.yd. earth and 3350 cu.yd. rock excav., 5700 cu.yd. dry rubble masonry, four 10 ft. span, one 12 ft. span, two 16 ft. span, one 20 ft. span, three 30 ft. span, two 40 ft. span and three 50 ft. span bridges. Noted May 1.

**Wyo., Laramie** — Road Work — U. S. Forest Serv. plans to build 9 mi. Brooklyn Lake Rd., 24 ft. wide, Albany Co. About $30,000. J. S. Bright, Tramway Bldg., Denver, Colo., dist. engr.

**Idaho**—Road Work—U. S. Forest Reserve plans to build 52 mi. highway into Elk City, connecting with Lewis and Clark Highway. About $290,000 available. R. C. Schmelz, surv.

**Wash., Puget Sound** — Engine Room Extension — Spec. 4024 — Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build. About $40,000.

**Cal., San Francisco**—Aerial Defense Buildings—Constr. Div., War Dept., plans to build aerial defense buildings, to include three 60 x 400 ft. hangars, 100 x 150 ft. machine and engine repair shop, 75 x 100 ft. supply storehouse, 75 x 100 ft. barracks, administration building, guard house, photographic laboratory, officers' quarters and 20 cottages. About $1,000,000.

## BIDS DESIRED

**Vt., St. Johnsburg**—Post Office—Until Oct. 6, by Treas. Dept., Wash., D. C., building post office, here. J. A. Wetmore, superv. archt.

**Mass., Boston**—Remodeling Hospital—Until Sept. 30, by Treas. Dept., Wash., D. C., remodeling main building of U. S. Marine Hospital, here. J. A. Wetmore, superv. archt.

**N. Y., New York**—Dredge—Until Oct. 10, by U. S. Engr. Office, 39 Whitehall St., building and delivering dipper dredge; advertised in this issue.

**Pa., Nicetown**—Finishing Machine Shop and Heat Treatment Building and Half-Yard Runways—Until Sept. 2, by Office of Constr. Quartermaster, U. S. Midvale Gun Plant, building, here; advertised in this issue.

**Pa., Phila**—Forge Shop Extension, Shell and Case Shop Buildings—Until Sept. 9, by Officer in Charge of Constr., Frankford Arsenal, building, here; advertised in this issue.

**D. C., Wash.**—Sewerage System, Water Service Lines and Electric Lighting Plant—Until Sept. 18, by Comr. Indian Affairs, Wash., installing sewerage system, water service lines and electric lighting plant at Standing Rock School, N. D.

**N. C., Wilmington** — Dredge, Etc. — Until Sept. 29, by U. S. Engr. Office, Wilmington, purchasing clam-shell dredge Hercules, steam launch Mercur and gasoline launch Frances; advertised in this issue.

**S. C., Charleston**—Mechanical Stokers—Spec. 4010—Until Sept. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing in Central Power Plant, here. About $11,000; $10 deposit required for plans and spec. Noted Aug. 21.

**Fla., Key West**—Development of Base—Spec. 3762—Until Sept. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., developing base, here. About $1,670,000; $20 deposit required for plans and spec. Noted Jan. 16.

**La., New Orleans**—Equipment—Spec. 3882—Until Sept. 3 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing mechanical and electrical equipment for power plant, here. About $115,000; $30 deposit required for plans and spec. Noted Aug. 21.

**Wash., Puget Sound**—Reciprocating Air Compressor—Spec. 3837—Until Sept. 24, by Bureau Yards & Docks, Navy Dept., Wash., D. C.; installing, here. About $62,000; $10 deposit required for plans and spec. Noted Aug. 21.

**Wash., Republic** — Road Work — Until Sept. 3, by Bureau Pub. Rds., 628 Post Office Bldg., Portland, Ore., grading 6 mi. Laurier South-National Forest Rd., Ferry Co., involving 17 acres clearing, and 57,600 cu.yd. earth and 8100 cu.yd. rock excav.

**Cal., Mare Island**—Electric Lighting and Power Systems—Spec. 3982—Until Oct. 1, (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing, here. About $25,000; $10 deposit required for plans and spec. Noted Aug. 14.

**Hawaii, Pearl Harbor** (Kauhua) —Torpedo Track, Electric Trolley and Hoist and Gyro—Spec. 4008—Until Sept. 10 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here. About $25,000; $10 deposit required for plans and spec. Noted Aug. 7.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**Conn., Mystic**—Post Office—Treas. Dept., Wash., D. C., received bid Aug. 25, building post office, here, labor only, from J. Miles & Son, 393 Main St., Worcester, Mass., $32,707. Noted July 31.

**N. Y., Stapleton** — Water Supply Connections — Treas. Dept., Wash., D. C., received bids Aug. 19, building water supply connections at U. S. Marine Hospital, here, from C. F. Mentsinger & Son, 354 Bway, Brooklyn, $2755, (40 days); J. R. Proctor, Inc., 74 Courtland St., New York City, $2982, (60 days); G. E. Engr. Co., 22 Laight St., New York City, $4988, (45 days). Noted Aug. 7.

**Pa., Phila.** — Boat Storage Building—Spec. 4012—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building, here, (1) work complete, from

Foulkrod Co., 1406 Commonwealth Bldg., (1) $306,460, (150 days); (2) add $19, deduct $14; (3) add $90, deduct $15; (4) deduct $11,780; (5) $6,785; alternative, (1) $284,078, (150 days); (5) $6,431.

Stang & Mitchell, 733 Real Estate Trust Bldg., (1) $310,547, (180 days); (2) add $47, deduct $8; (3) add $2.60, deduct $0.10; (4) $10,357; (5) $11,267.

Irwin & Leighton Co., 126 North 12th St., (1) $324,400, (150 days); (2) add $20, deduct $10; (3) add $1, deduct $0.10, (4) deduct $6500; (5) add $8000; (6) deduct $18,000. Noted Aug. 21.

**Pa., Phila.**—Cranes—Spec. 4013—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids installing traveling overhead cranes in boat and general storage building, (1) work complete, from

Niles, Bement Pond Co., 111 Broadway, New York City, (1) $25,500, (120 to a 150 days); (2) $8760; (3) $12,600; (4) $1700; (5) $12; Chesapeake Iron Works, Westport, Md., (1) $27,210, (120 days); (2) $9250, (3) $13,160, (4) $1600, (5) $40; Whiting Fdry. & Equipment Co., Harvey, Ill., (1) $28,915, (2) $10,715, (3) $13,650, (4) $1050, (5) $12. Noted Aug. 21.

★**Pa., Phila.**—Dredging—U. S. Engr. Office, Phila., let contract dredging in Schuylkill River, to Maryland Dredging & Contg. Co., Finance Bldg., Sects. 1, 4 and 5, $.22 place, $.29 place and $.45 scow, respectively; Amer. Dredging & Contg. Co., Mariner & Merchant Bldg., Sects. 2 and 3, $.226 and $.298 scow, respectively. Noted July 31.

**D. C., Wash.**—Canal Wall—Dist. Comrs., Dist. Bldg., received bids Aug. 19, reconstructing portion of canal wall west of Aqueduct Bridge, wall "A", (1) excav.; (2) concrete, class "A"; (3) concrete, class "B"; (4) rein. steel; (5) cofferdam; wall "B"; (1) excav.; (2) excav. above 36; (3) rock excav., (4) concrete above 36; (5) concrete below 36, from

Hyde & Baxter, Wash., wall "A" (1) $5; (2) $20; (3) $17; (4) $0.08; (5) $5000; wall "B" (1) $5; (2) $15; (3) $20; (4) $15; (5) $15.

W. F. Brenizer, 101 New York Ave., N. E., Wash., (1) $4; (2) $30; (3) $25; (4) $0.07; (5) $13,500.

Piel Constr. Co., 2519 Edmondson Ave., Baltimore, Md., wall "A", (1) $6.61; (2) $30.74; (3) $20.88; (4) $0.09; (5) $5600; wall "B" (1) $6.61; (2) $21.61; (3) $7.50; (4) $29.75; (5) $45.74. Noted July 31.

★**D. C., Wash.**—Portable School Buildings—Dist. Comrs., Dist. Bldg., let contract furnishing 24 portable school buildings, to Hyde & Baxter, Wash., $78,850.

★**D. C., Wash.**—Repairing Wharf—Dist. Comrs., Dist. Bldg., let contract repairing sand and gravel wharf on Water St. between 9th and 10th Sts., S. E., to J. Trout Constr. Co., Wash., cut off piles, remove

Federal Government Work (Continued)

of track, etc., $373 per M. B. M.; framing and emplacing all 12 x 12 in. timber, $24.60 per M. B. M.; furnishing, framing and emplacing all except flooring, $128 per M. B. M.; furnishing and emplacing all flooring, removal of old floor, $114 per M. B. M.; furnishing and placing all hewn cross ties, $2.45 each; furnishing and spiking in position all steel rails, $98.50 per ton. Noted Aug. 7.

**Va., Norfolk** — Roofing — Spec. 4005 — Bureau Yards & Docks, Navy Dept., D. C., received bids Aug. 20, roofing emergency hospital buildings, here, from J. T. Davis Slate, 129 South Bromley Ave., Scranton, Pa., $24,706, (50 days); King Lumber Co., Charlottesville, Va., $36,900, (60 d ys); T. S. Gassner Co., 4545 Wayne Ave., Phila., $43,259, (60 days). Noted July 31.

**S. C., Charleston**—Quay Wall—Spec. 3773—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids building at Navy Yard, here, (1) work complete, from Smith, Hauser & MacIsaac, 18 East 41st. St., New York City, (1) $365,152; (180 days); (2) $55,494; (3) $46,305; (4) $320; (5) $28; (6) add $0.47, deduct $0.37; (7) add $0.87, deduct $0.78.

Snare & Triest Co., 8 West 40th St., New York City, (1) $387,400, (180 days); (2) $55,000; (3) $42,000; (4) $320; (5) add $25, deduct $20; (6) add $0.50, deduct $0.20; (7) add $0.80, deduct $0.30.

H. P. Converse Co., 31st St. and Colonial Ave., Norfolk, Va., (1) $550,000, (180 days); (2) $60,000; (3) $40,000; (4) $300; (5) add $35, deduct $9; (6) add $1, deduct, $0.05; (7) add $1.60, deduct $0.05. Noted Aug. 14.

★**Ill., Cairo**—Pump, etc.—Treas. Dept., Wash., D. C., let contract installing new motor driven triplex pump, etc., in Post Office and Custom House, here, to J. J. O'Shea, 1203 Washington Ave., $3250. Noted July 17.

★**Wyo., Hardin**—Canal Improvements—U. S. Reclamation Serv., Billings, Mont., let contract building Frannie Canal of Shostone Project, to F. Briggs, Deaver, Schedule (1), $1150; E. R. Parsons, Edgar, Mont., and J. Smith, Fromberg, Mont., Schedules (3), (15) and (16), $4110; N. S. Bean, Warren, Mont., $1173; Riley Bros., Warren, Mont., Schedules (4), (5) and (11), $3935; H. Downer, Deaver, Schedules (6), (7), (8), (12), (13) and (14), $6214; A. Gillis, Box 705, Billings, Mont., Schedules (9) and (10), $2658; W. A. Bullard, Box 73, Kane, Schedule (17), $1490.

★**Ore., Klamath Falls**—Dyke—Dept. of Interior, Wash., D. C., let contract dyking 2500 acre swamp between Rattle Snake and Hank's Points, here, to J. F. Adams. About $30,000.

**Cal., Mare Island**—Completing Structural Shop—Spec. 3719—Local Navy Yard received bids Aug. 12, completing 300 x 600 ft. structural shop, from Clinton Constr. Co., 140 Townsend St., $491,000; Lange & Bergstrom, Sharon Bldg., $506,453; Lindgren Co., Monadnock Bldg., $521,000. Contractors all of San Francisco. Noted Aug. 14.

## Miscellaneous

### PROPOSED WORK

**Coal Trestle — Easthampton, Mass.** — Hampton Co., Hampton Mills, soon receives bids building concrete and steel coal trestle, here. About $15,000. McClintock & Craig, 33 Lyma St., Springfield, engrs.

**Foundation—Providence, R. I.**—Kendall, Taylor & Co., engrs. and archts., 93 Federal St., Boston, soon let contract building foundation for 5 story, 78 x 143 ft. brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, for Rhode Island Hospital, Eddy St. Total cost, $150,000. Noted Mar. 13 under "Buildings."

**Transmission Lines — Riversville, W. Va.**—"See Industrial Work."

**Parks—Perry, Okla.**—City voted $10,000 bonds to improve parks.

**Amusement Park—Pocatello, Idaho**—C. W. McGillis, 50 East 5th St. and C. Evans, both of Salt Lake City and B. Slater, Pocatello, organized local company and having preliminary plans prepared for amusement park, to include 80 x 120 ft. swimming pool, playground athletic apparatuses, water and light systems, etc. About $100,000.

**Lighthouses—Ottawa, Ont.**—Dept. Naval Serv. plans to build automatic lighthouses near Ft. Churchill, by which horns, sirens, lighthouses, etc., are to be electrically controlled from shore by submarine cable. About $50,000.

### BIDS DESIRED

**Street Lighting System—Dell Rapids, S. D.**—Until Sept. 9, by city, for installation of ornamental series street lighting system consisting of 130 c.i. posts with lamps, lamps' sockets and globes, cut outs, 2 switch boards, meters, transformers and steel tape lead covered cables. L. K. Larson, mayor.

**Paving Materials—Portland, Ore.**—Until Sept. 2, by S. C. Pier, city purch. agt., furnishing crushed rock, rock screenings, sand, gravel and filling material for period of 3, 6, 9 and 12 months respectively. About $25,000. O. Laurgaard, city engr.

**Bay Improvements—Newport Beach, Cal.**—Until Sept. 3, by L. H. Wallace, for improvement, development and protection of Newport Bay, as follows: (1) extension of jetty and construction of jetties and revetments and other improvements at proposed mouth of Santa Ana River, (2) construction of dam at Bitter Point, (3) excavation at proposed mouth of Santa Ana River, (4) dredging channel at Newport Bay, (5) dredging channel over bar, (6) building wharf and warehouse, (7) building spur track at wharf. Bids will be received and considered for all of project, or for any part or parts thereof. Leeds & Barnard, Central Bldg., Los Angeles, consult. engrs.; advertised in this issue.

**Wharf—Meteghan, N. S.**—Until Sept. 17, by R. S. Desrochers, secy. dept. pub. wks., Ottawa, Ont., repairing and renewing wharf here. Noted Aug. 14.

**Breakwater—Petit Rocher, N. B.**—Until Sept. 16, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., repairing breakwater here.

**Breakwater—Quaco, N. B.**—Until Sept. 17, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., rebuilding eastern breakwater here.

**Wharf—St. Jean d' Orleans, Que.**—Until Sept. 3, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., building and repairing wharf here.

**Wharf—Naramata, B. C.**—Until Sept. 22, by R. C. Desrochers, secy. dept. pub wks., Ottawa, Ont., building wharf, here. Noted June 26.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Tank — Waterville, , Me.** — Wyandotte Worsted Co. let contract for 115,000 gal. storage tank, concrete, to T. I. Ellis, 171 Westminster St., Providence.

★**Coal Trestle—Chicopee Falls, Mass.**—Chicopee Mfg. Co., West Main St., let contract building rein.-con. coal trestle, to F. T. Ley & Co., Inc., 499 Main St., Springfield. About $10,000.

★**Tank—Bristol, R. I.**—Natl. India Rubber Co. let contract for 150,000 gal. storage tank, concrete, to T. I. Ellis, 171 Westminster St., Providence.

★**Granite Curbing — Providence, R. I.** — City let contract furnishing 11,000 ft. granite curbing, to R. B. Marriott & Sons, Oneco, Conn. Cost $11,000.

★**Tank—Providence, R. I.**—Amer. Silk Spinning Co., Admiral and Whipple Sts., let contract for 80,000 gal. oil storage tank, concrete, to T. I. Ellis, 171 Westminster St.

★**Tank—Woonsocket, R. I.**—Alsace Worsted Co., East School St., let contract for 110,000 gal. storage tank, concrete, to T. I. Ellis, 171 Westminster St., Providence.

★**Tank—Woonsocket, R. I.** — Montrose Worsted Co., East School St., let contract for 45,000 gal. storage tank, concrete, to T. I. Ellis, 171 Westminster St., Providence.

★**Tank—Woonsocket, R. I.** — Rosemont Dyeing Co., East School St., let contract for 92,000 gal. storage tank, concrete, to T. I. Ellis, 171 Westminster St., Providence.

**Tracks—Brooklyn, N. Y.**—J. H. Delaney, comr. transit constr., 49 Lafayette St., New York City, received lowest 3 bids Aug. 19, furnishing and installing tracks for portion of Culver Rapid Transit R.R. extending over and along Shell Rd. and West 6th St. from point near Ave. X to Sheepshead Bay Rd., from Slattery Eng. & Constr. Co., 7 East 42nd St., New York City, $58,829; Ward & Tully, 2047 West 11th St., $69,561; T. Crimmins Contg. Co., 624 Madison Ave., New York City, $90,461. Noted Aug. 7.

★**Bulkhead—New York, N. Y.**—M. Hurlburt, comr. docks, Pier A, Battery Pl., North River, let contract furnishing labor and material for building bulkhead platform between East 79th and East 80th Sts., East River, and depositing riprap thereat, to Riverside Contg. Co., 39 Cortland St. About $10,000. Noted Aug. 7.

★**Lumber and Piles—New York, N. Y.**—Dept. Docks and Ferries let contract furnishing and delivering lumber and piles, to Central Timber Export Co., 115 Bway., $28,586. Noted Aug. 21.

★**Plumbing—New York, N. Y.**—Dept. Educ. let contract for plumbing and drainage of addition to and alterations in P. S. No. 6, on Tremont Ave., Bronx Boro., to J. J. Kenney, 236 West 20th St. About $13,000. Noted Aug. 21.

★**Pier—Jersey City, N. J.**—Central Railroad of New Jersey, Pier 14, North River, let contract building rein.-con. and steel pier, to Westinghouse, Church & Kerr, 37 Wall St., New York City. About $35,000.

★**Foundation, etc.—Erie, Pa.**—Dirs. Erie Co. Poor Dist. let contract building foundation of Erie Co. Almshouse, also constructing power plant and laundry, for same, to Constable Bros., 5th and Sassafras Sts. About $118,900.

★**Heating and Ventilating Systems—Erie, Pa.**—See "Buildings."

**Tracks—Phila., Pa.**—Dept. City Transit, 1211 Chestnut St., received bids constructing tracks of Frankford Elevated Ry., on elevated structure on Front St., Kensington Ave. and Frankford Ave., between Callowhill and Harrison Sts., about 5.6 mi. long, Contr. No. 562, from Snare & Triest, Pennsylvania Bldg., $462,010, M. and J. B. McHugh, 892 North Market St., $521,828, North Amer. Ry. Constr. Co., 1320 Monadnock Bldg., Chicago, $539,339. Noted July 24.

★**Pier — Baltimore, Md.** — Baltimore & Eastern Shore Ferry Co., Inc., 110 East Lexington St., let contract building 1200 ft., rein.-con. and timber pier, 35 ft. wide, including frame shed on each end, north of Bay Shore Park, to McLean Contg. Co., 1412 Fidelity Bldg. Cost between $75,000 and $100,000. Cost plus percentage basis.

★**Cast Iron Pipe—Detroit, Mich.**—J. A. Martin, comr. purchases & supplies, Municipal Courts Bldg., let contract to Amer. Cast Iron Pipe Co., 512 1st Nat. Bank Bldg., Chicago, furnishing 500 tons 6 in. c.i. water pipe, $0.83 per ft. and 500 tons 8 in. c.i. pipe, $1.19 per ft. Noted Aug. 14.

★**Greenhouses—St. Louis, Mo.**—H. Knoll, 800 Kansas Ave., will build 1 story, concrete and glass greenhouse, etc. Work will be done by day labor. About $10,000.

★**Lumber—St. Louis, Mo.**—City let contract furnishing various kinds of lumber, to Boeckeler Lumber Co., Hall and Mallinckrodt Sts., $588,175.

★**Stone—Souris, P. E. I.**—Dept. Pub. Wks., Ottawa, Ont., let contract delivering and placing stone on portion of seaward side of breakwater here, to Phillips & Mutch, Charlottetown. About $53,800. Noted May 22.

★**Wharf—Berthier, Que.** — Dept. Pub. Wks., Ottawa, Ont., let contract building and repairing wharf here, to N. Letourneau, Montmagny, $17,556. Noted July 3.

★**Caissons, etc.—Grand Mere, Que.**—Laurentide Co., Ltd., McGibbons St. and 3rd Ave., let contract sinking caissons, 60 ft. long, 10 ft. wide, 40 ft. deep below water level, and building piers for new tail race block, to Fraser, Brace & Co., St. Patrick St., Montreal. About $150,000.

★**Wharf—Ste. Anne de Beaupre, Que.**—Dept. Pub. Wks., Ottawa, Ont., let contract rebuilding and repairing wharf here, to O. Poliquin, Portneuf, $26,201. Noted July 10.

★**Heating Tunnel—Ottawa, Ont.**—Dominion Government let contract building heating tunnel on Wellington St., to Doran & Devlin, Sparks St. About $15,000.

★**Wharf—Thessalon, Ont.**—Dept. Pub. Wks., Ottawa, let contract building wharf here, to A. G. Tweedie, Saulte Ste. Marie. About $10,000. Noted June 26.

★**Pier—Toronto, Ont.**—Dept. Pub. Wks., Ottawa, let contract rebuilding portion of superstructure of east pier at eastern entrance of Toronto Harbor, 400 ft. long, to C. S. Boone Dredging & Constr. Co., Excelsior Life Bldg., $31,095. Noted July 10.

★**Wharf—Comax, B. C.**—Dept. Pub. Wks., Ottawa, Ont., let contract repairing wharf here, to Fraser River Pile Driving Co., Ltd., New Westminster. About $17,400. Noted June 26.

★**Wharf—Saanichton, B. C.**—Dept. Pub. Wks., Ottawa, Ont., let contract repairing wharf here and at Sydney and Roberts Bay, to McDonald, Watson & Whittier, 520 Sayward Bldg., Victoria, $10,948. Noted July 10.